



The product is an optical relay. The device consists of an AlGaAs infrared emitting diode input stage optically coupled to a high-voltage output detector circuit in a plastic SOP4 package. The detector consists of a high-speed photovoltaic diode array and driver circuit. The products are widely used in measuring and testing equipment, security and disaster prevention market, industrial machinery and equipment.

High isolation 3750Vrms  
Wide variation of load voltage  
Operating temperature range -40°C to 85°C  
REACH & RoHS compliant  
HBM: H3A; MM: 1000; CMT: 1000  
CQC approved  
VDE approved  
UL approved



	Output Power Dissipation	P <sub>O</sub>	300	mW
Total Power Dissipation		P <sub>tot</sub>	375	mW
Isolation Voltage		V <sub>iso</sub>	3750	V <sub>rms</sub>
Operating Temperature		T <sub>opr</sub>	-40~110	
Junction Temperature		T <sub>j</sub>	125	
Storage Temperature		T <sub>stg</sub>	-55~125	
Soldering Temperature		T <sub>sol</sub>	260	

- . 100μs pulse, 100Hz frequency
- . AC for 1minute, R.H.=40~60%

(Temperature=25°C)

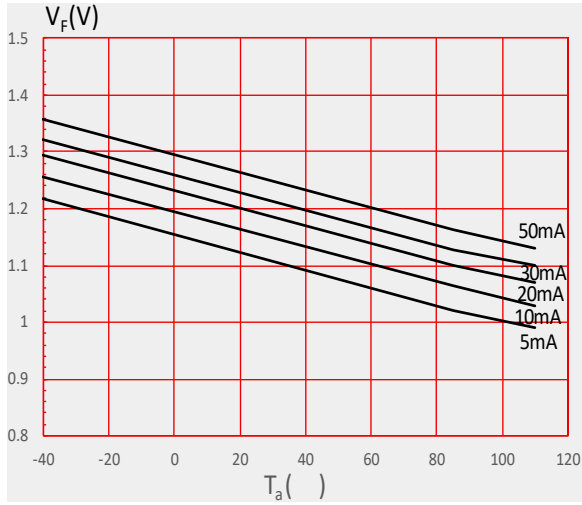
Input	Forward Voltage		V <sub>F</sub>	I <sub>F</sub> =10mA	-	1.2	1.5	V	
	Reverse Current		I <sub>R</sub>	V <sub>R</sub> =6V	-	-	1	μA	
	Action Current		I <sub>F(ON)</sub>	I <sub>L</sub> =I <sub>L(MAX)</sub>	-	0.9	3	mA	
	Reset Current		I <sub>F(OFF)</sub>	I <sub>L</sub> =I <sub>L(MAX)</sub>	0.4	0.8	-	mA	
Output	On Resistance	JOCMA39C	R <sub>on</sub>	I <sub>F</sub> =5mA I <sub>L</sub> =Max. Within 1s on time	-	-	0.1	Ω	
		JOCMA38C			-	-	0.3		
		JOCMA57C			-	-	0.4		
		JOCMA66C			-	-	2.5		
		JOCMA74C			-	-	25		
		JOCMA83C			-	-	35		
	Off State Leakage Current		I <sub>Leak</sub>	I <sub>F</sub> =0mA, V <sub>L</sub> =Max.	-	-	1	μA	
Output Capacitance		C <sub>O</sub>	V <sub>OFF</sub> =0V, f <sub>o</sub> =1MHz	-	-	-	pF		
Switching Characteristics	Isolation Resistance		R <sub>ISO</sub>	DC500V 40~60%R.H.	10 <sup>12</sup>	-	-	Ω	
	Floating Capacitance		C <sub>IO</sub>	V=0, f=1MHz	-	-	1.5	pF	
	Turn On Time	Turn On	JOCMA39C	t <sub>on</sub>	I <sub>F</sub> =5mA, I <sub>L</sub> =Max.	-	0.65	2	ms
			JOCMA38C			-	0.65	2	
			JOCMA57C			-	0.6	2	
			JOCMA66C			-	0.25	0.5	
			JOCMA74C			-	0.21	0.5	
			JOCMA83C			-	0.18	0.5	
	Turn Off Time	Turn Off	JOCMA39C	t <sub>off</sub>	I <sub>F</sub> =5mA, I <sub>L</sub> =Max.	-	0.08	0.2	ms
			JOCMA38C			-	0.08	0.2	
JOCMA57C			-			0.08	0.2		
JOCMA66C			-			0.04	0.2		



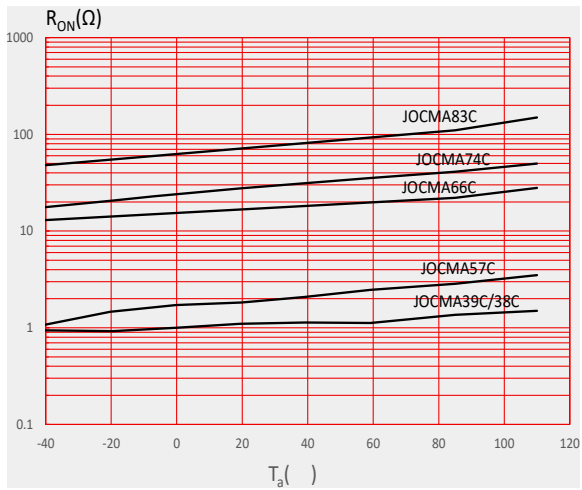


LED Dropout Voltage vs. Ambient

Temperature

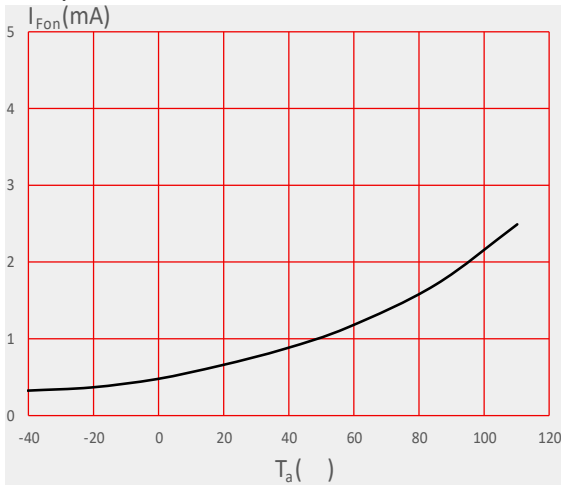


On Resistance vs. Ambient Temperature

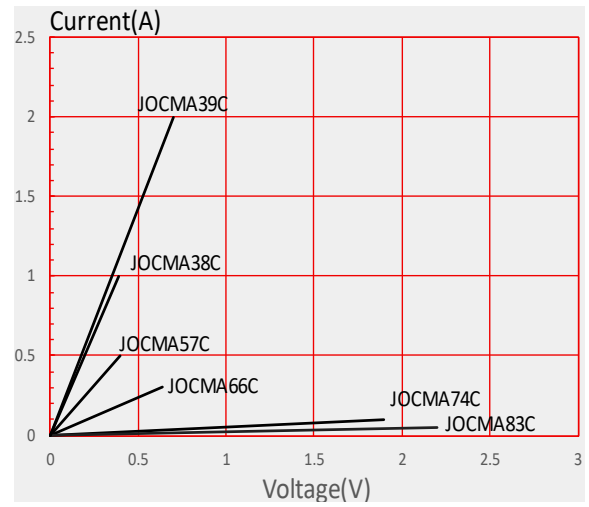


LED Operate Current vs. Ambient

Temperature

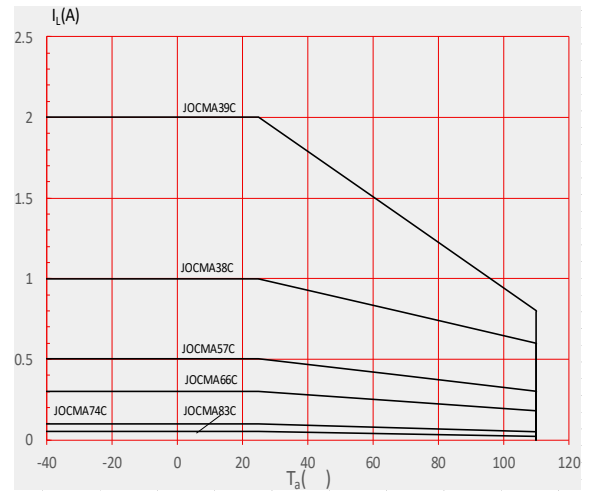


Output Current vs. Output Voltage



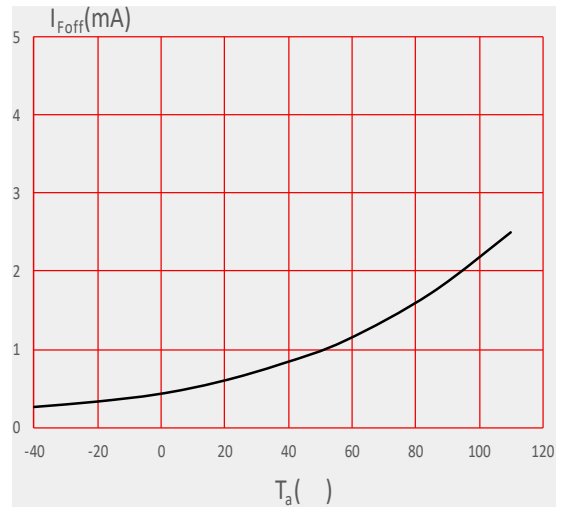
Load Current vs. Ambient

Temperature



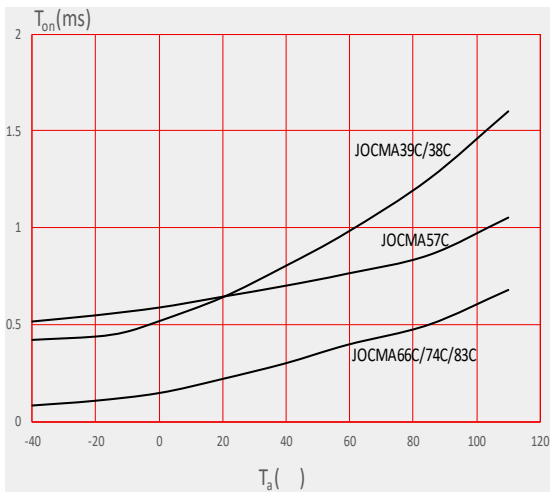
LED Turn Off Current vs. Ambient

Temperature

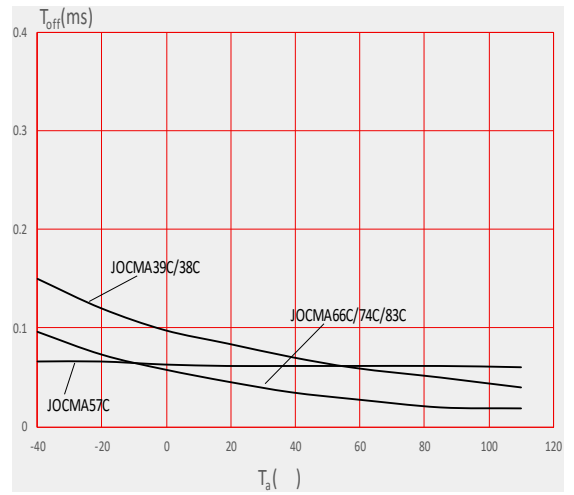




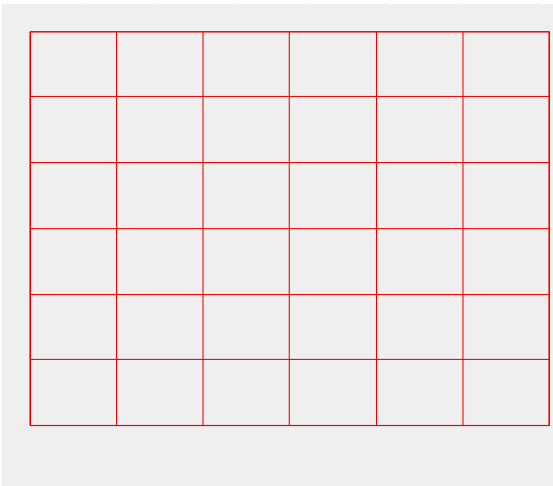
Turn On Time vs. Ambient Temperature



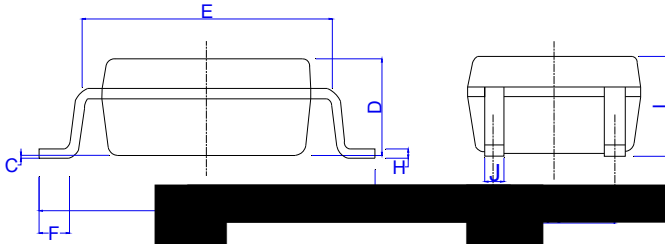
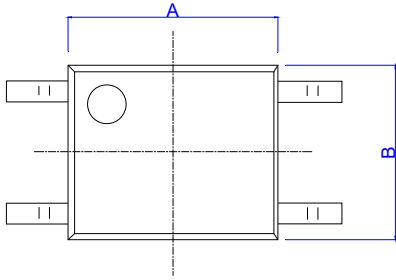
Turn Off Time vs. Ambient Temperature



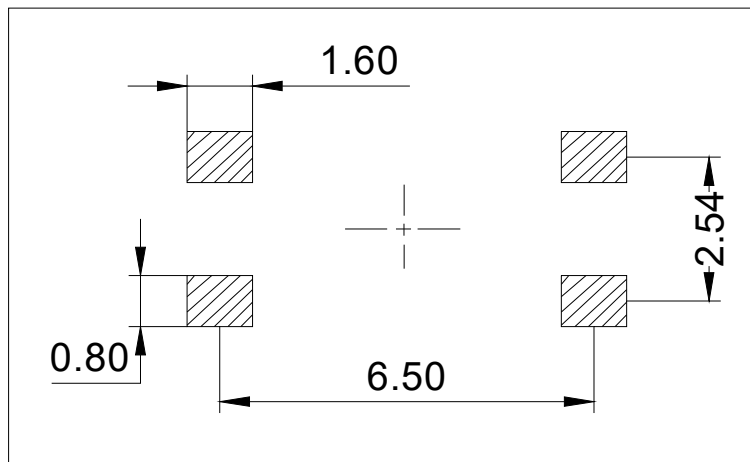
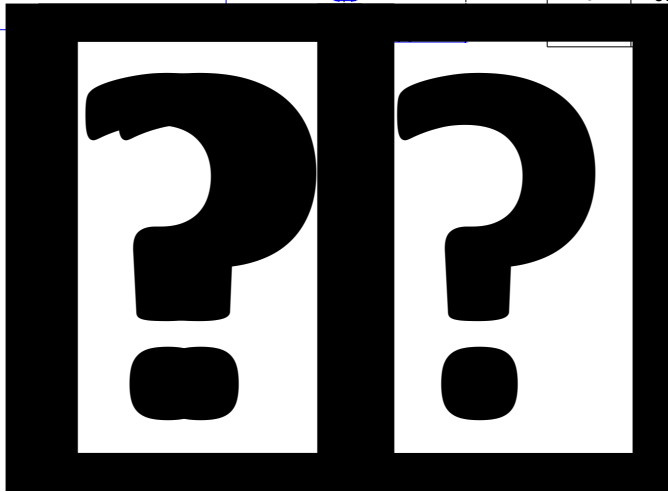
Turn On Time vs. LED Forward Current



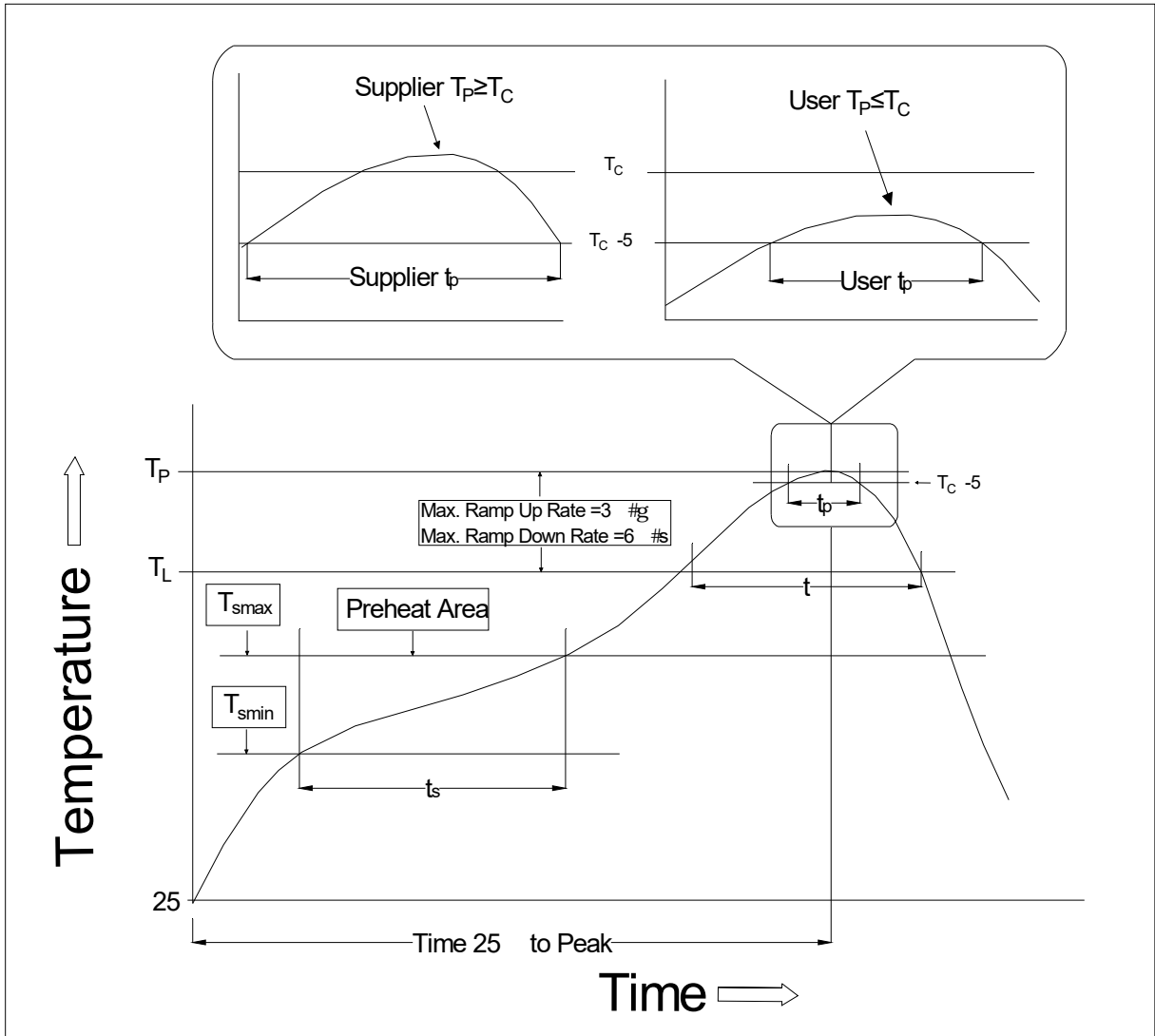
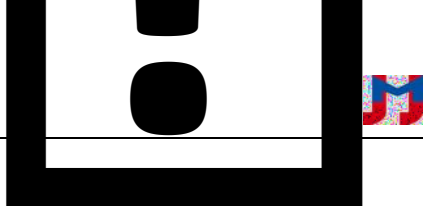
Turn Off Time vs. LED Forward Current



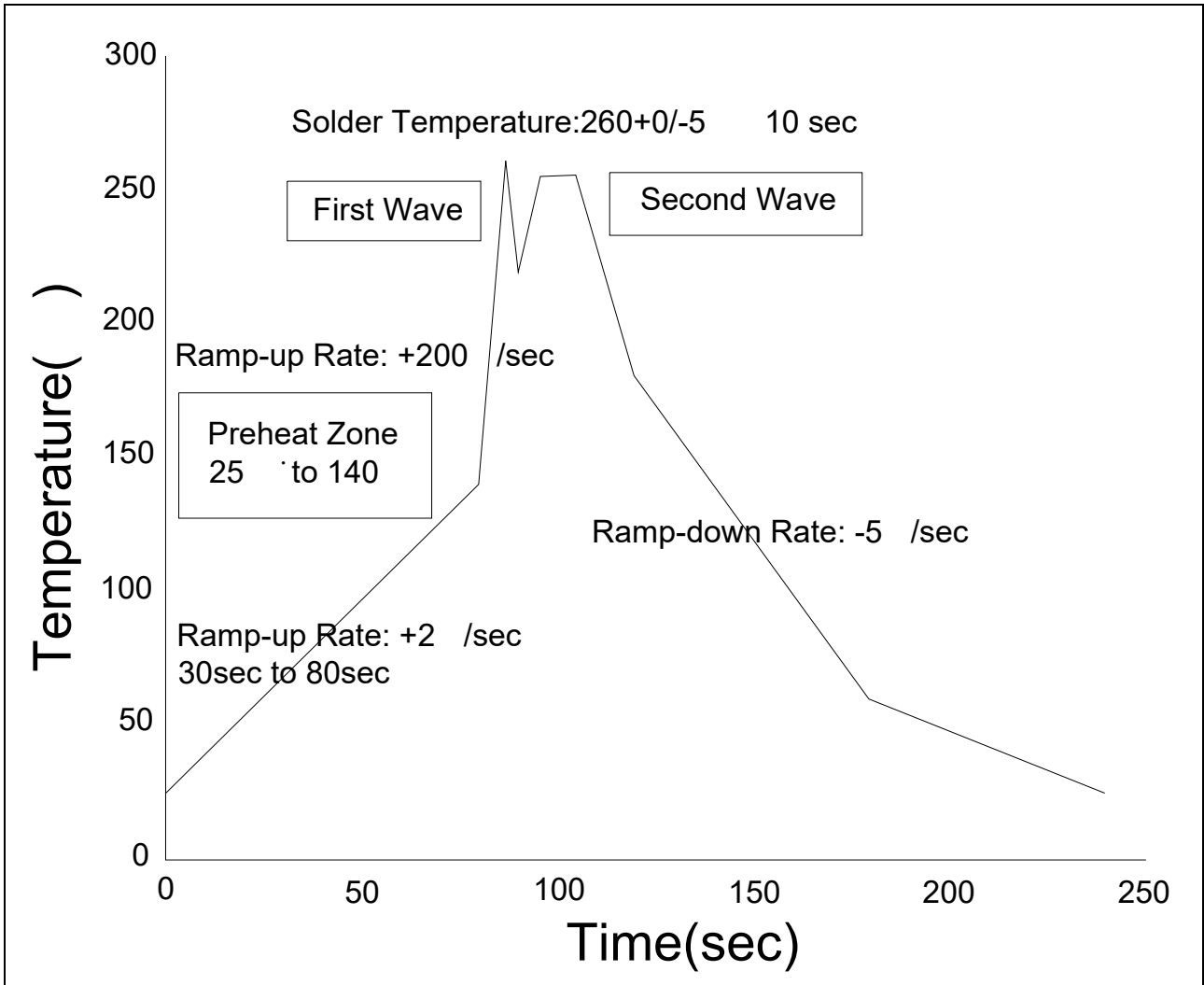
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.80	0.173		0.189
B	3.60		4.20	0.142		0.165
C	0.00		0.20	0.000		0.008
D	1.90		2.30	0.075		0.091
E	5.00		5.60	0.197		0.220
F	0.34		0.94	0.013		0.037
G	6.70		7.30	0.264		0.287
H	0.10		0.30	0.004		0.012
I	2.00		2.40	0.079		0.094
J	0.25		0.55	0.010		0.022
	2.29		2.79	0.090		0.110







Temperature Min. (T <sub>smin</sub> )	100	150
Temperature Max. (T <sub>smax</sub> )	150	200
Time (t <sub>s</sub> ) from (T <sub>smin</sub> to T <sub>smax</sub> )	60-120 seconds	60-120 seconds
Ramp-up Rate (t <sub>L</sub> to t <sub>P</sub> )	3 /second max.	3 /second max.
Liquidus Temperature (T <sub>L</sub> )	183	217
Time (t <sub>L</sub> ) Maintained Above (T <sub>L</sub> )	60-150 seconds	60-150 seconds
Peak Body Package Temperature	235 +0 /-5	260 +0 /-5
Time (t <sub>P</sub> ) within 5 of 260	20 seconds	30 seconds
Ramp-down Rate (T <sub>P</sub> to T <sub>L</sub> )	6 /second max.	6 /second max.
Time 25 to Peak Temperature	6 minutes max.	8 minutes max.



Soldering Temperature	360w 5
Soldering Time	3s max.



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Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.
2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.
3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.
4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent manufacturing steps.
5. The component has a shelf life of one year when stored under standard conditions.
6. Recommend storage Temp.: 0~40°C;  
Recommend storage humidity: <60%;  
MSL level: MSL 1

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