JOCSR23BM-D5P/S Series

Rev.A.1.0

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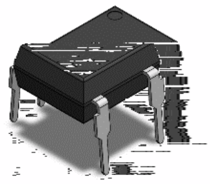
The products are 5-pin solid-state relay opto-couplers. The device combines an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase photo triac to drive a power triac in a plastic DIP5 package with different lead forming options. The products are widely used in solenoid/valve controls, light controls, motor controls, temperature controls, static AC power switches, solid state relays, interfacing microprocessors to 265 V$_{AC}$ peripherals.



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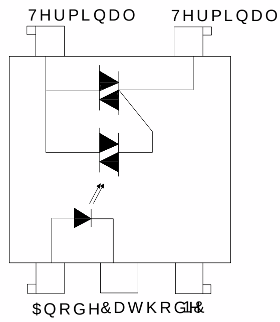

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- High isolation 5000 Vrms
- DC input with triac output
- Operating temperature range -40 ÁC to 110 ÁC
- REACH & RoHS compliance
- HBM: H3B ; MM: M4 ; CDM: C3
- CQC approved
- VDE approved
- UL approved

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Parameter		Symbol	Value	Unit
Input	Forward Current	I_F	50	mA
	Peak Forward Current	I_{FP}	1ŵ	A
	Reverse Voltage	V_R	6	V
	Power Dissipation	P_D	75	mW
Output	Repetitive peak off-state voltage	V_{DRM}	600	V
	Repetitive peak reverse voltage	V_{RRM}	600	V
	Critical rate of rise of on-state current	dI/dt	100	A/εs
	On-state RMS Current (ÒT 80	,7 506		
	1RQ UHSHWLWLYH SHDN RQ VWDWH FXUUHQW I$_S$XOVH VF\FOH	W ,760		
	MXQFWLRQ WR FDVH	$& 5WK M F		:

Isolation Voltage	V_{iso}	5000Ŷ	Vrms
Operating Temperature	T_{opr}	-40 ~ 110	Ņ
Junction Temperature	T_j	125	Ņ
Storage Temperature	T_{stg}	-40 ~ 125	Ņ
Soldering Temperature	T_{sol}	260	Ņ
Peak pulse voltage (Ţ= 25 Ņ ; non-repetitive,off-state)	V_{pp}	3	kV

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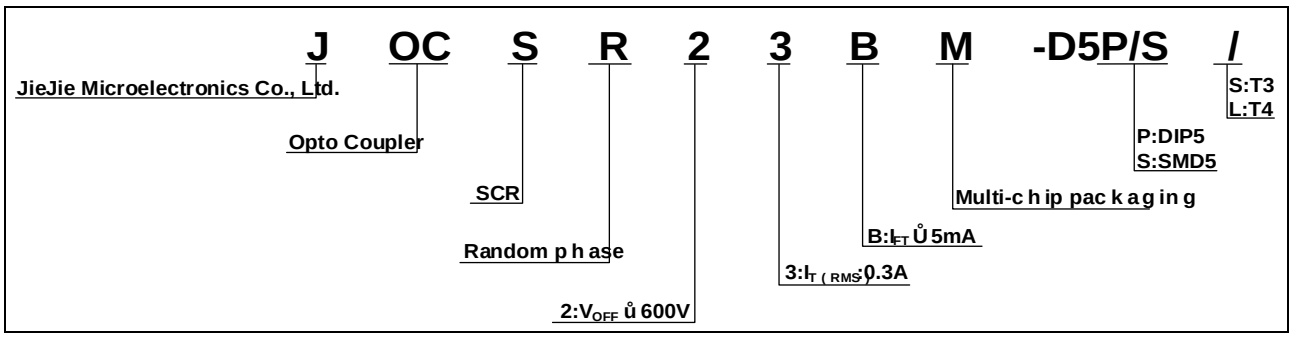

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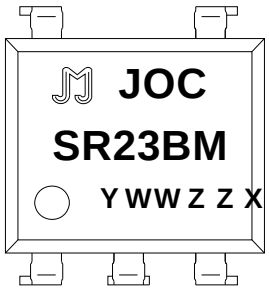

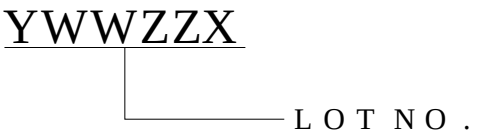

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FIG.1: Max. Allowable LED Forward Current vs. Ambient Temperature

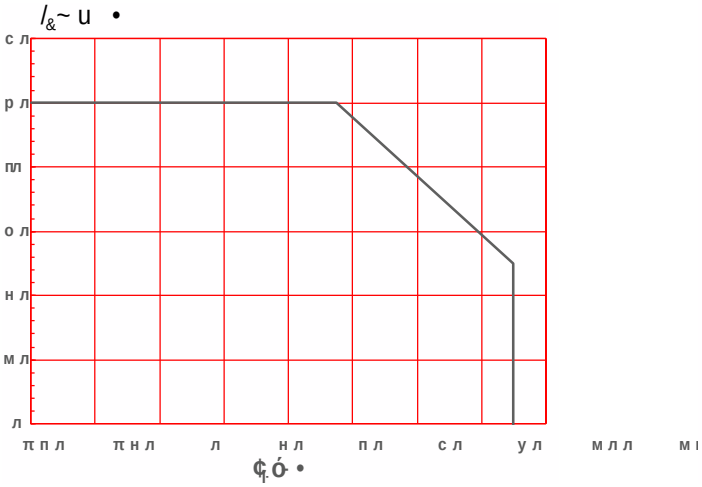


FIG.2: On-state Terminal Current vs. Ambient Temperature

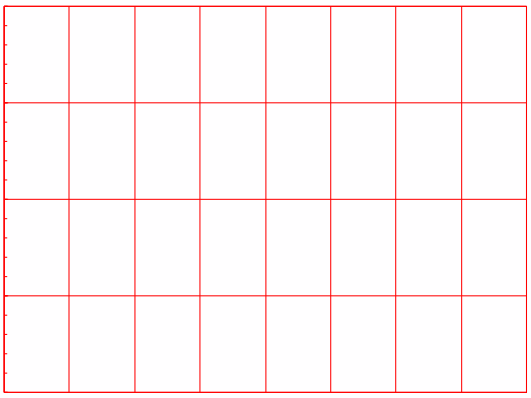


FIG.7: On-state c h aracteristics

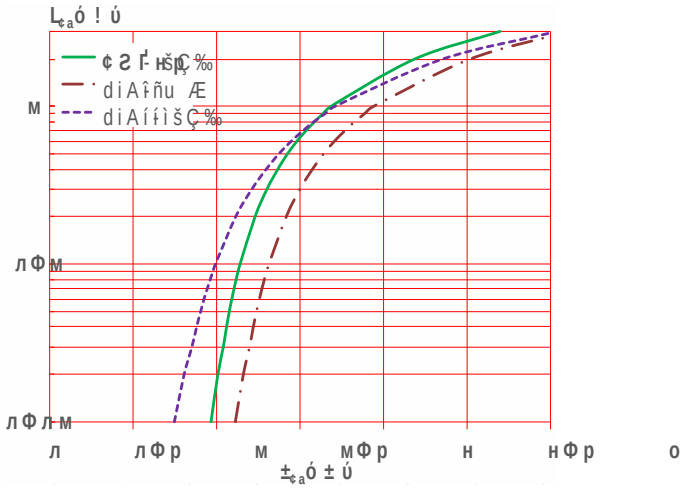


FIG.8: Normali z ed H oldin g Current vs. Ambient Temperature

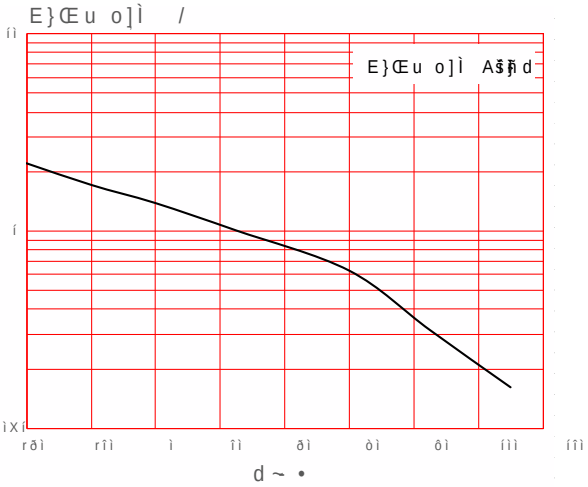
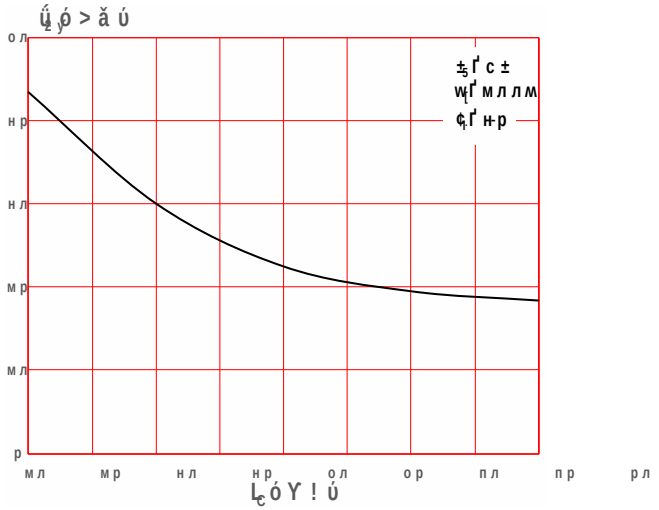


FIG.9: Turn On Time vs. For ward Current



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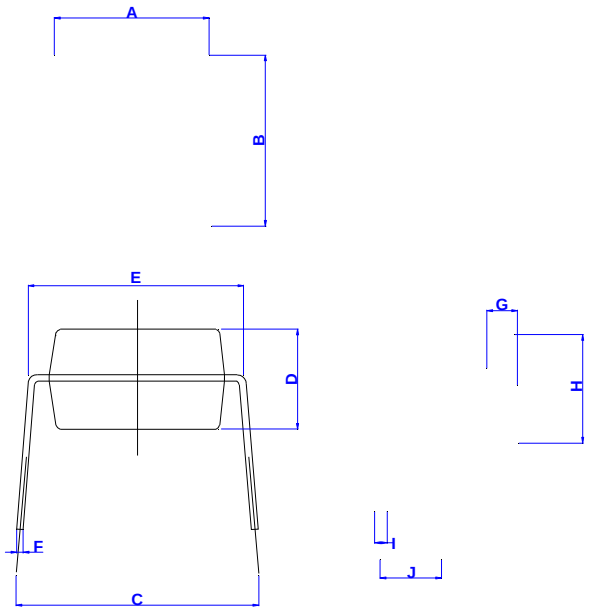
Standard DIP Type:



Dimensions	
Millimeters	Incio Â

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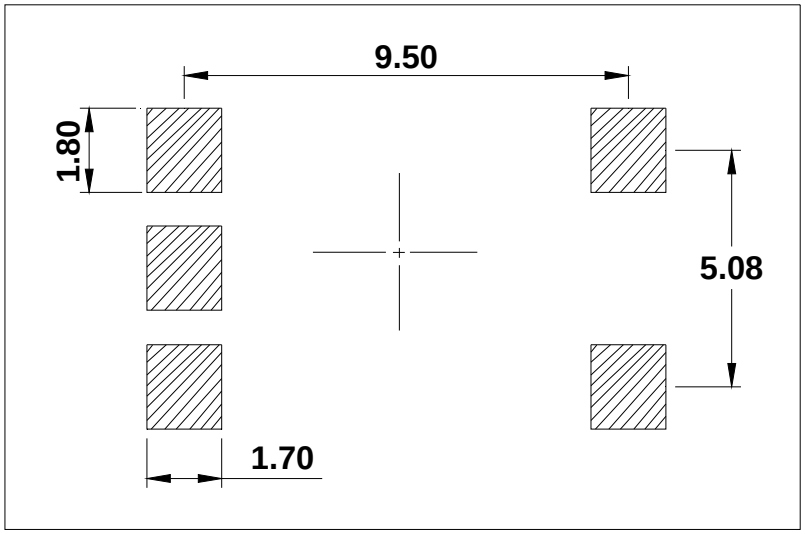
Option SMD



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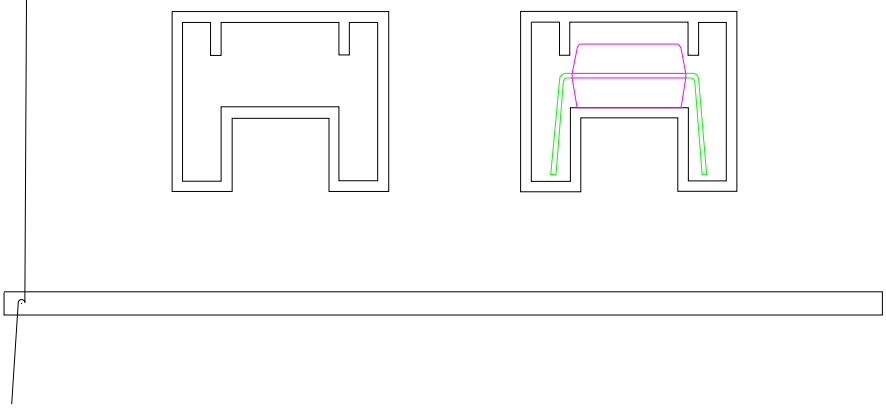
Standard DIP



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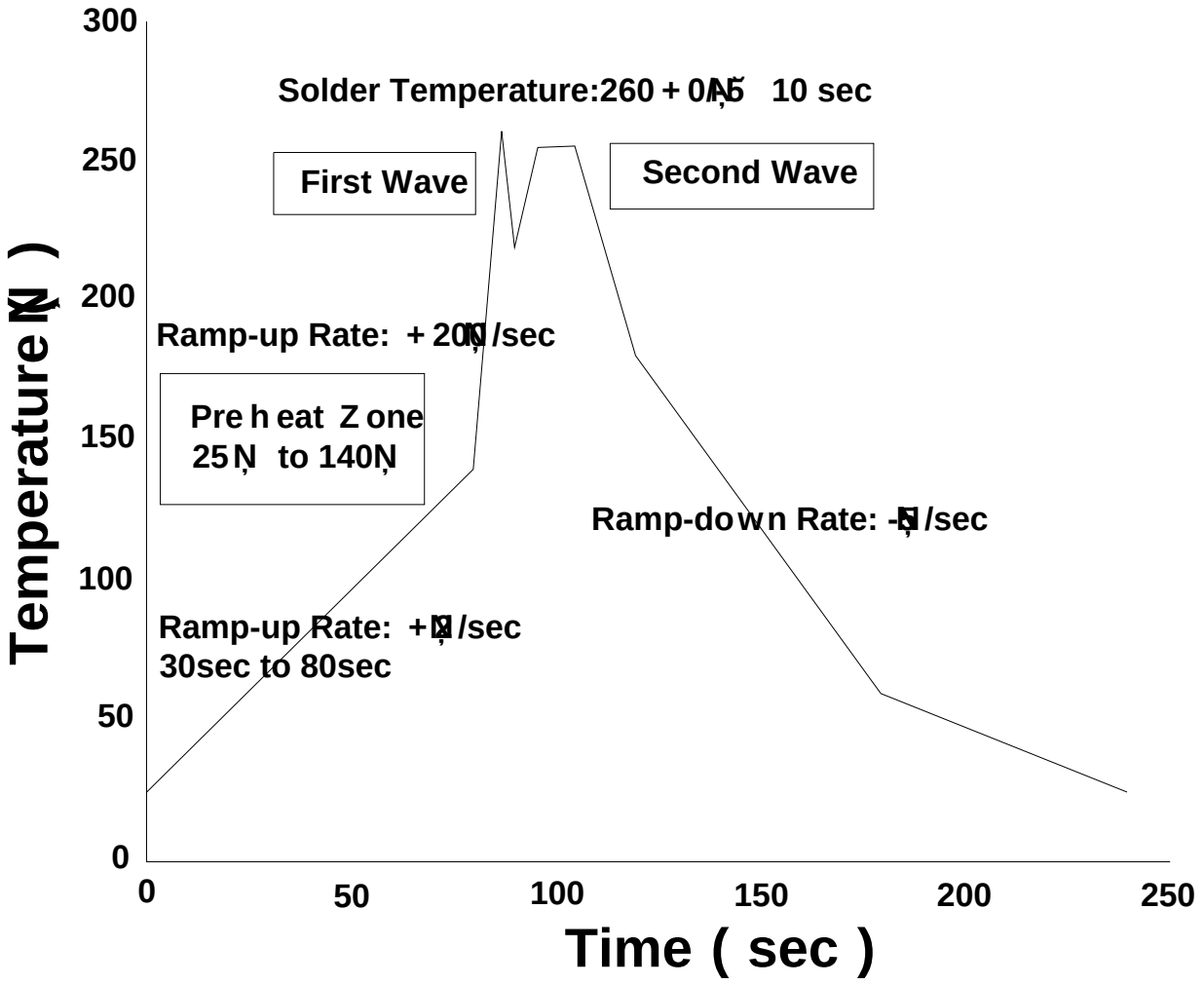

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Soldering Temperature	360 ¤ 5
Soldering Time	3s max.

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