



RS1001FL~RS1008FL

SMALL SURFACE MOUNT FAST DIODES

VOLTAGE 100 to 800 Volts CURRENT 1.0 Amperes

FEATURES

- · For surface mounted applications
- · Low profile package
- · Ideal for automated placement
- Glass Passivated Chip Junction
- \bullet High temperature soldering : 260°C / 10 seconds at terminals
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

• Case : JEDEC SOD-123FL, Molded plastic over passivated junction

• Terminals : Solderable per MIL-STD-750, Method 2026

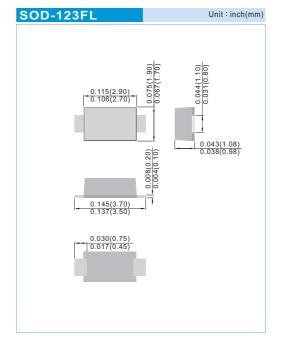
• Standard Packaging : 8mm tape (EIA-481)

· Apporx. Weight: 0.0006 ounces, 0.0173 grams

• Polarity: Color band cathode



Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Cathode

Rating	Test condition	Symbol	RS1001FL	RS1002FL	RS1004FL	RS1006FL	RS1008FL	Units
Marking Code		-	R1B	R1D	R1G	R1J	R1K	-
Maximum repetitve peak reverse voltage		V _{RRM}	100	200	400	600	800	V
Maximum RMS voltage		V _{RMS}	70	140	280	420	560	V
Maximum DC blocking voltage		V _{DC}	100	200	400	600	800	V
Maximum average forward rectified current Derate above T_c =110°C		I F(AV)			1.0			Α
Maximum instantaneous forward voltage	0.7A 1.0A	V _F	1.15 1.3					V
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}			30			Α
Maximum DC reverse current at rated DC blocking voltage	T _J =25°C T _J =125°C	I _R	1.0 50					μА
Typical capacitance	4V,1MHz	C_J	9					pF
Reverse recovery time	I _F =0.5A I _R =1A I _r =0.25A	t "	150 250		500	nS		
Thermal resistance junction to ambient air		$R_{_{\varthetaJA}}$	180					°C/W
Operating junction and storage temperature range		T_J,T_STG	-55 to +150					°C

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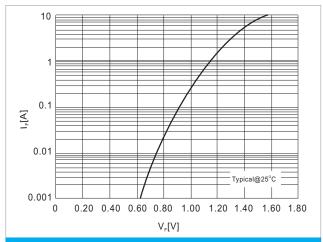


Fig.1-TYPICAL FORWARD CHARACTERISTICS

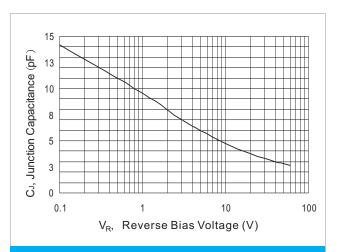


Fig.2-TYPICAL JUNCTION CAPACITANCE

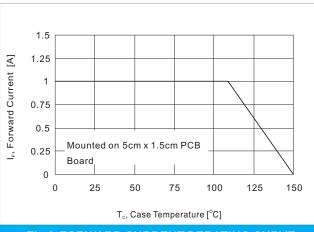


Fig.3-FORWARD CURRENT DERATING CURVE

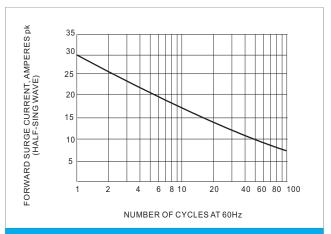


Fig.4-MAXIMUM NON-REPEITIVE SURGE CURRENT

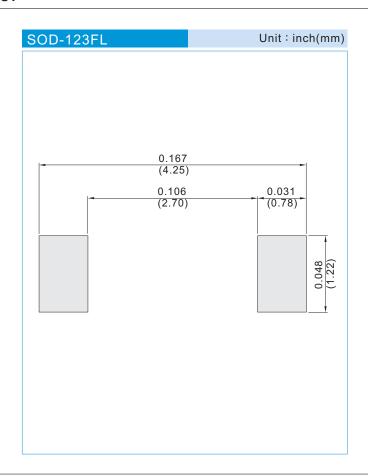
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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