



RS1001FL~RS1008FL

SMALL SURFACE MOUNT FAST DIODES

VOLTAGE 100 to 800 Volts **CURRENT** 1.0 Amperes

SOD-123FL/DO-219AB

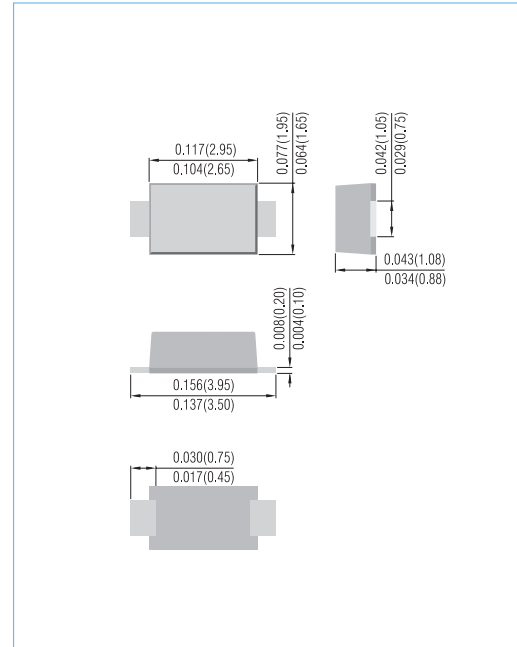
Unit: inch (mm)

FEATURES

- For surface mounted applications
- Low profile package
- Ideal for automated placement
- Glass Passivated Chip Junction
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: JEDEC DO-219AB, Molded plastic over passivated junction
- Terminals: Solderable per MIL-STD-750, Method 2026
- Standard Packaging : 8mm tape (EIA-481)
- Approx. Weight: 0.0168 gram



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%

Rating	Test condition	Symbol	RS1001FL	RS1002FL	RS1004FL	RS1006FL	RS1008FL	Units
Maximum repetitive 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	$T_D=65^\circ\text{C}$ $T_A=45^\circ\text{C}$	$I_{F(AV)}$	1.4 0.5					A
Maximum instantaneous forward voltage	0.7A	V_F	1.15					V
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	I_R	10 50					μA
Thermal resistance junction to ambient air		$R_{\theta JA}$	180					K/W
Operating junction and storage temperature range		T_J, T_{STG}	-50 TO + 150					$^\circ\text{C}$
Reverse recovery time	$I_F=0.5\text{A}$ $I_R=1\text{A}$ $t_r=0.25\text{A}$	t_{rr}	150		250		500	nS
Typical capacitance	4V,1MHz	C_J	9					pF



RS1001FL~RS1008FL

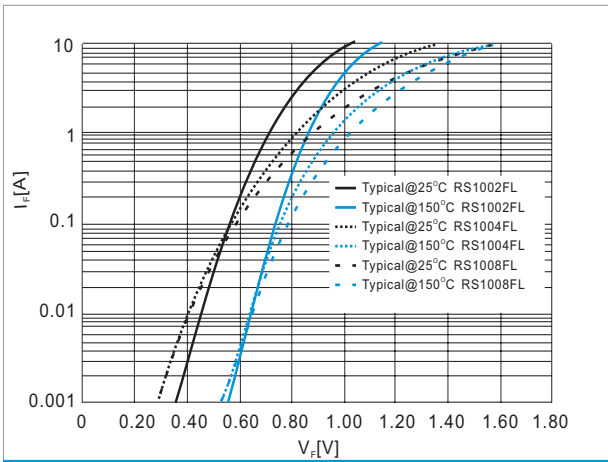


Fig. 1-Typical forward characteristics

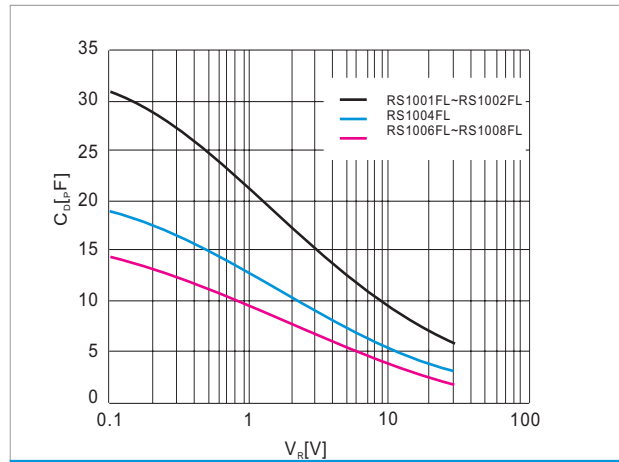


Fig. 3-Typ. diode capacitance vs. Reverse voltage

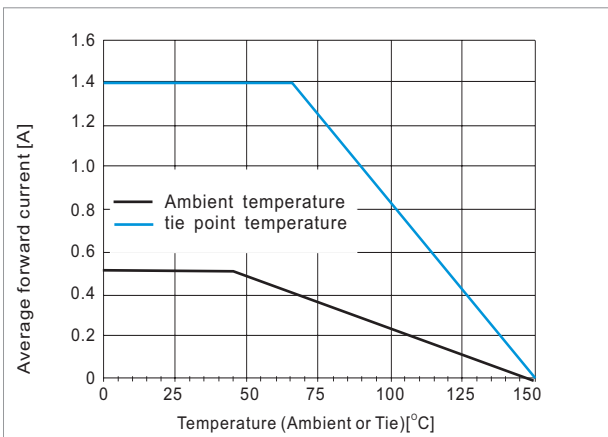
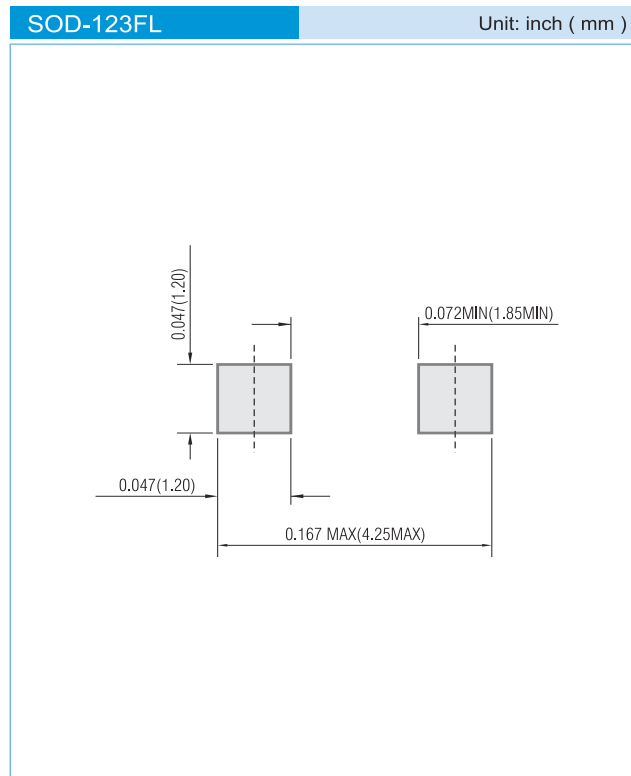


Fig. 2-Forward current derating curve



RS1001FL~RS1008FL

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2005

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.