

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260 °C/10seconds,9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



DO-27

Mechanical Data

- Case:DO-27 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless other wise specified.

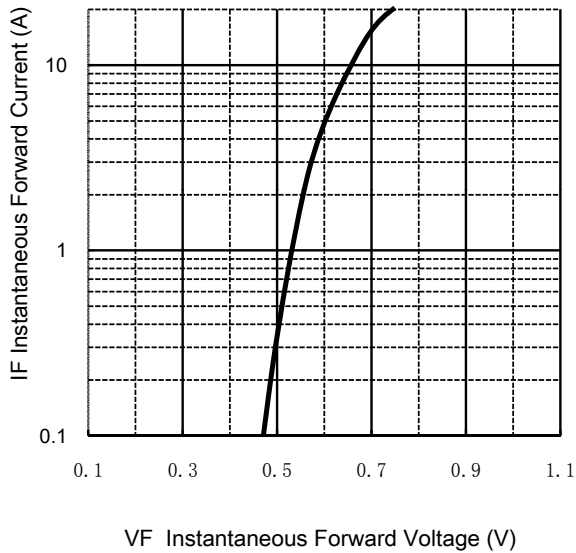
Parameter	Symbols	TSR1080L	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	80	V
Maximum RMS voltage	V_{RMS}	56	V
Maximum DC blocking voltage	V_{DC}	80	V
Maximum average forward rectified current	$I_{F(AV)}$	10.0	A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	150	A
Maximum forward voltage @ $I_F=10.0A$	V_F	0.70	V
@ V_{DC} Maximum reverse current	I_R	$T_A=25^{\circ}C$ 0.1	mA
		$T_A=100^{\circ}C$ 10	
Typical thermal resistance (Note 1)	$R_{\theta JA}$	54	°C/W
$V_R=4.0V, f=1MHz$ Type junction capacitance	C_j	400	pF
Operating junction and storage temperature rang	T_j, T_{STG}	-65 --- +150	°C

Note:

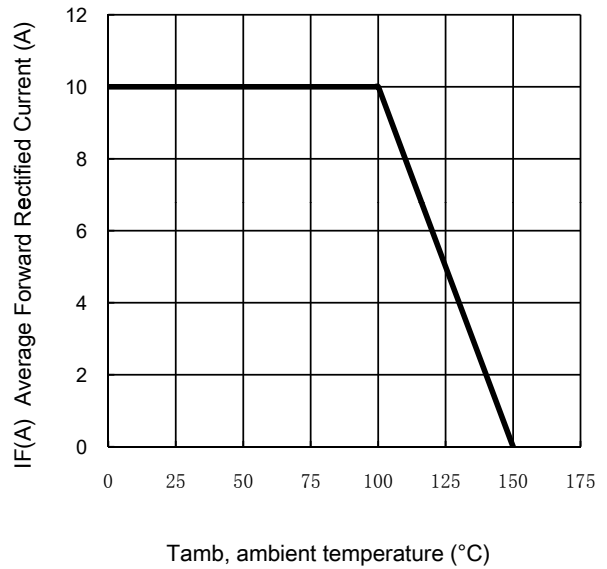
- 1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

Characteristic Curves

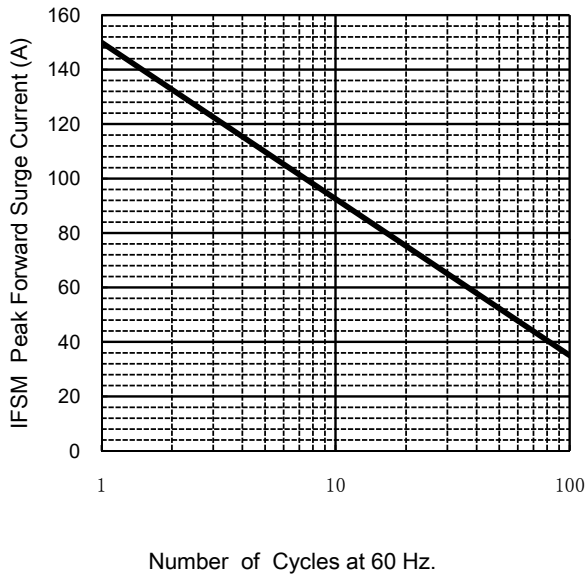
TYPICAL FORWARD CHARACTERISTIC



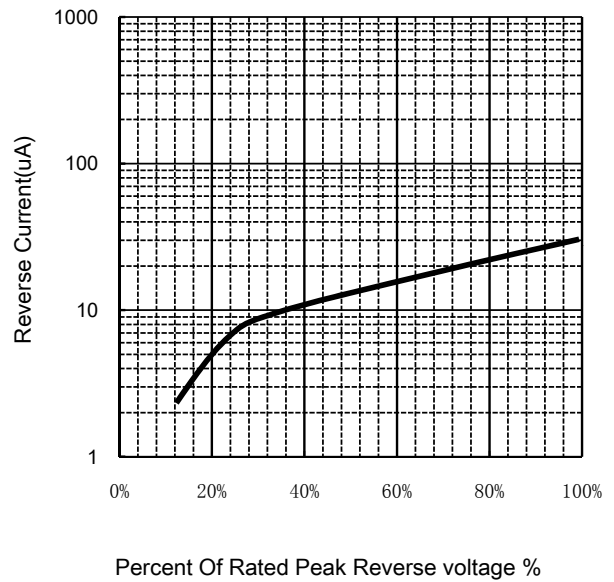
FORWARD CURRENT DERATING CURVE



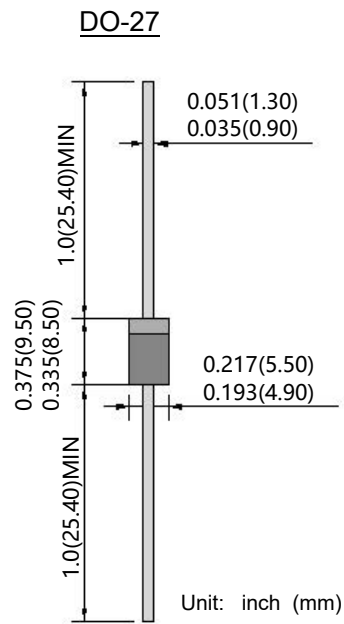
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Package Information

Qty: 1,000 /Tape and reel
500 /Bulk