

Descriptions

This is schottky barrier rectifiers, DO-27 package.

Features

- The plastic package carries Underwriters.
- Laboratory Flammability Classification 94V-0.
- High speed switching for high efficiency.
- Low reverse leakage.
- High forward surge current capability.
- High temperature soldering guaranteed:250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Applications

General purpose

Equivalent Circuit & Pinning



DO-27



1.Cathode 2. 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 current derate by 20%.

MDD Catalog Number	SYMBOLS	SR5150L	SR5200L	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	150	200	VOLTS
Maximum RMS voltage	V _{RMS}	105	140	VOLTS
Maximum DC blocking voltage	V _{DC}	150	200	VOLTS
Maximum average forward rectified current	I _(AV)	5.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	120.0		Amps
Maximum instantaneous forward voltage at 5.0A	V _F	0.85		Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	0.1		mA
		2.0		
Typical thermal resistance (NOTE 1)	R _{θJC}	6		°C/W
Operating junction temperature range	T _J	-55 to +150		°C
Storage temperature range	T _{STG}	-55 to +150		°C

Note:

1. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted

Electrical Characteristic Curve

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

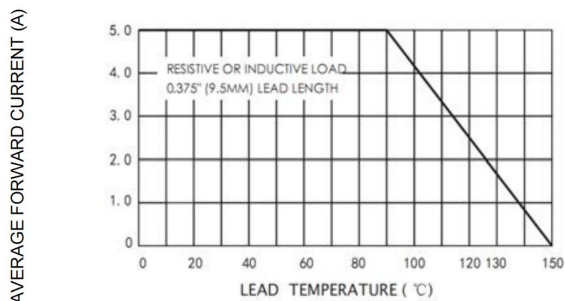


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

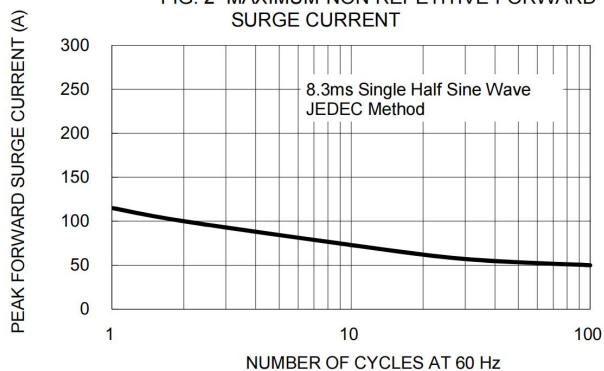


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

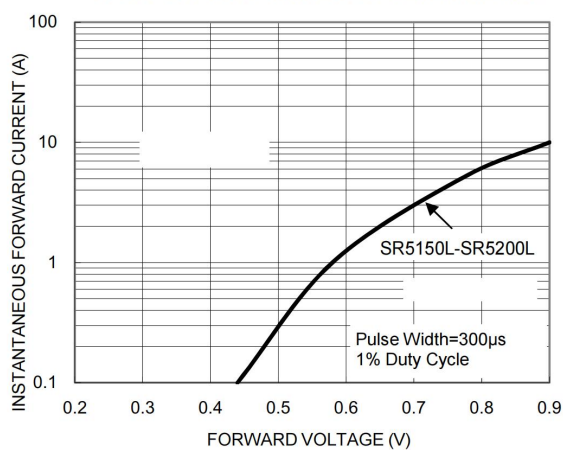


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

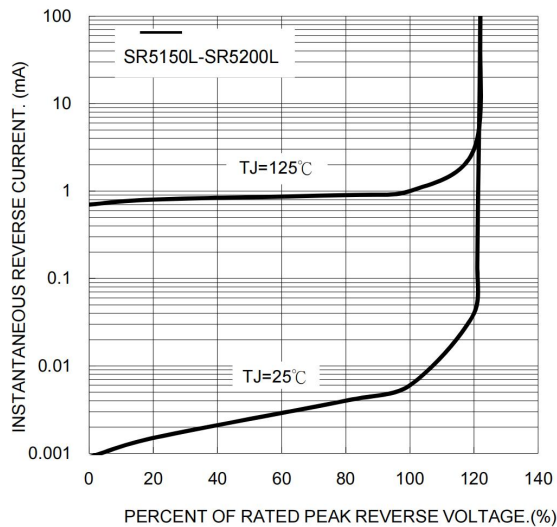


FIG. 5- TYPICAL JUNCTION CAPACITANCE

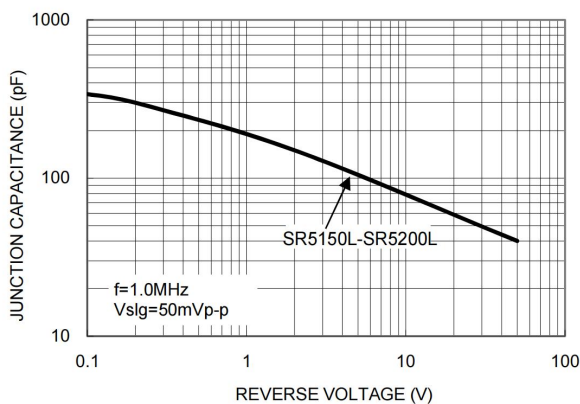
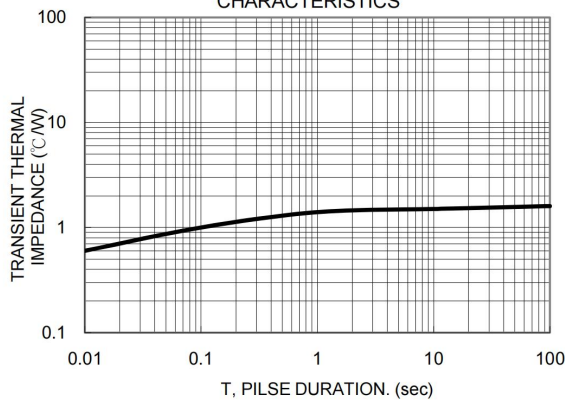
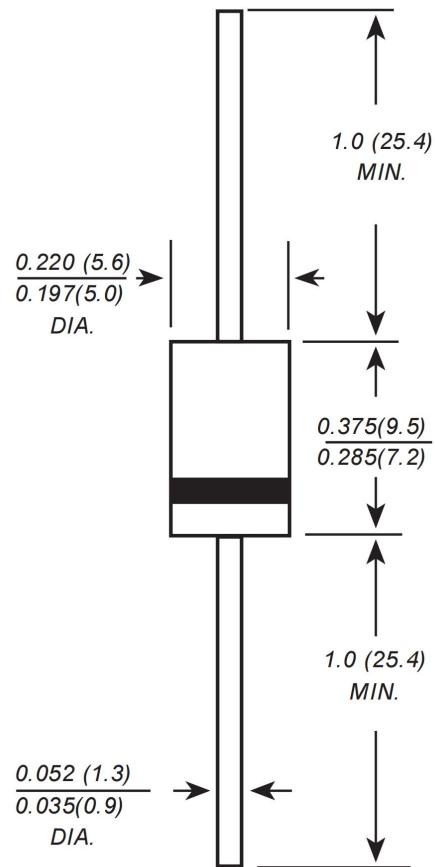


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS



Package Outline Dimensions

DO-27



Dimensions in inches and (millimeters)