

Features

- Low power loss, high efficiency
- High current capability, Low VF
- High reliability
- High surge current capability
- Epitaxial construction
- Lead and body according with RoHS standard

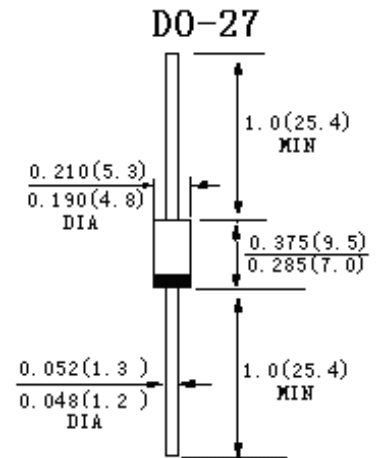
Mechanical Data

Case: DO-27 Molded plastic

Polarity: Color band denotes cathode

Mounting Position: Any

Lead: Pure tin plated, lead free



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

	SYMBOLS	SR5150	SR5200	UNIT
Maximum repetitive peak reverse voltage	VRRM	150	200	V
Maximum RMS voltage	VRMS	105	140	V
Maximum DC blocking voltage	VDC	150	200	V
Maximum average forward rectified current at TL=75°C	I(AV)	5.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	120		A
Maximum instantaneous forward voltage at 5.0A	VF	0.9		V
Maximum DC reverse current at rated DC blocking voltage	IR	0.1 5		mA
Operating Junction Temperature Range	T _J	-55 to +150		°C
Storage Temperature Range	T _{stg}	-55 to +150		°C

Characteristic Curves

Fig. 1 - Forward Current Derating Curve

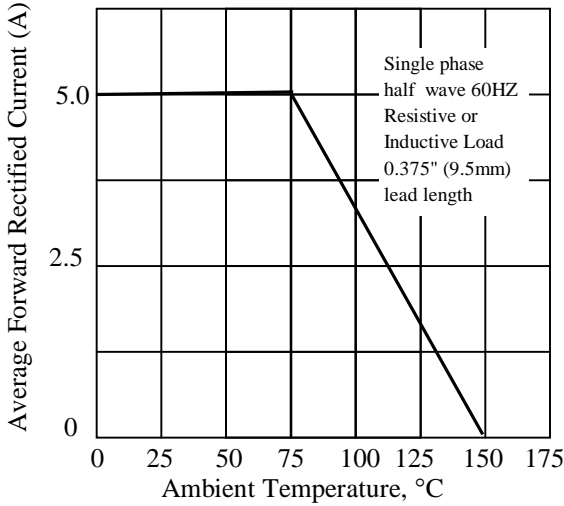


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

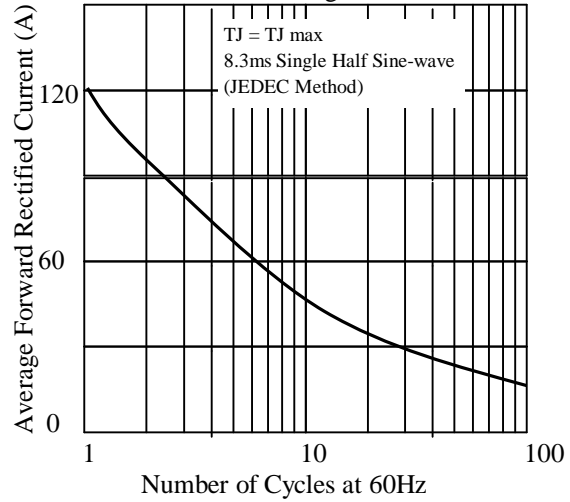


Fig. 3 - Typical Instantaneous Forward Characteristics

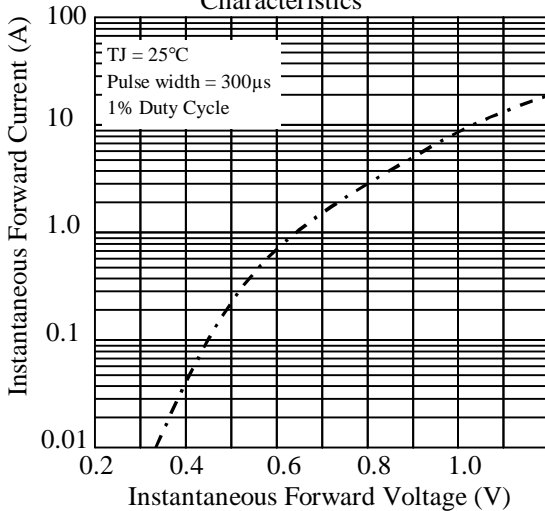


Fig. 4 - Typical Reverse Characteristics

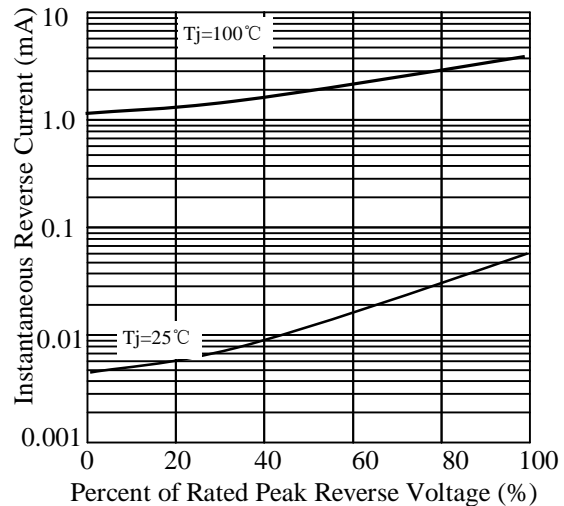


Fig. 5 - typical Junction Capacitance

