



SR560L

5 .0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

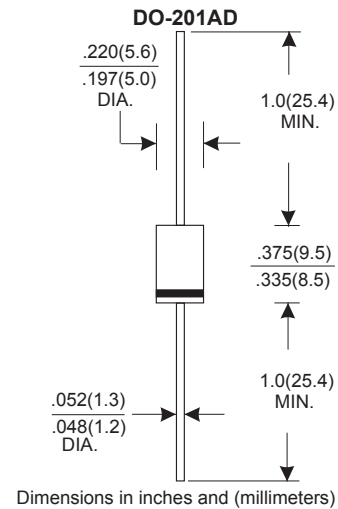
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams
- * Both normal and Pb free product are available:
- * Normal:80~95%Sn,5~20%Pb
- * Pb free:99 Sn above can meet Rohs enviroment substance directive request

VOLTAGE RANGE

60 Volts

CURRENT

5.0 Ampere



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	SR560L	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	60	VOLTS
Maximum RMS voltage	V_{RMS}	42	VOLTS
Maximum DC blocking voltage	V_{DC}	60	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	$I_{(AV)}$	5.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150.0	Amps
Maximum instantaneous forward voltage at 5.0A	V_F	0.54	Volts
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^{\circ}C$ 0.5	mA
		$T_A=100^{\circ}C$ 10.0	
Typical junction capacitance (NOTE 1)	C_J	300	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	35.0	$^{\circ}C/W$
Operating junction temperature range	T_J	-65 to +150	$^{\circ}C$
Storage temperature range	T_{STG}	-65 to +150	$^{\circ}C$

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

RATINGS AND CHARACTERISTIC CURVES SR560L

FIG.1-TYPICAL FORWARD CHARACTERISTICS

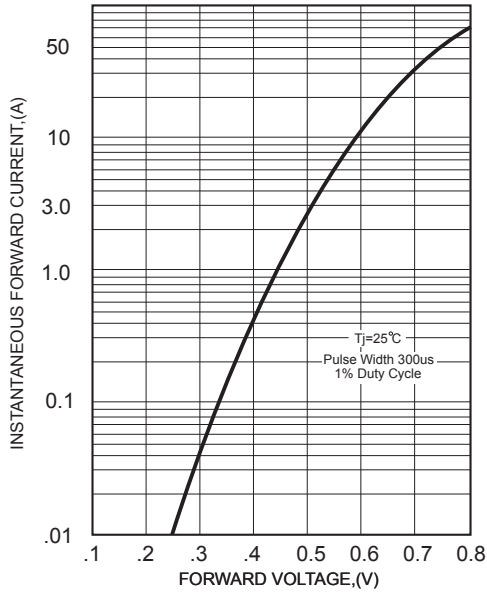


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

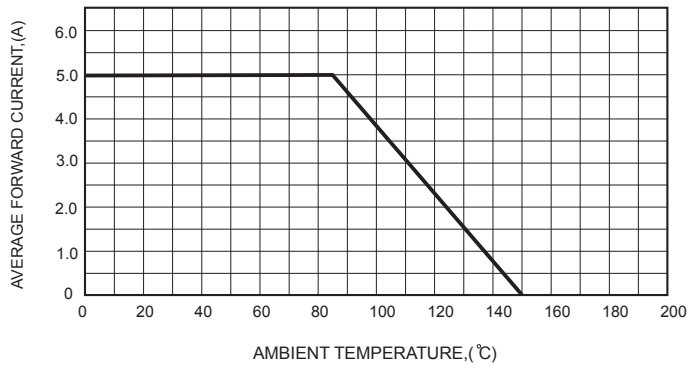


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

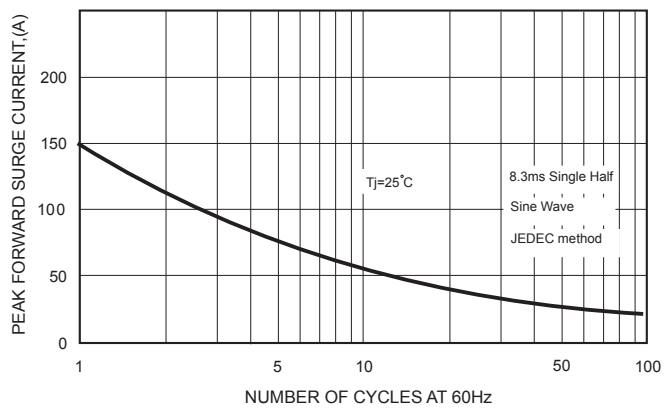


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

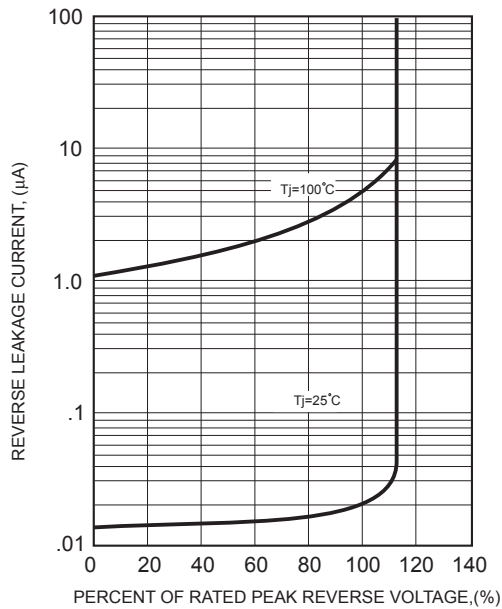


FIG.4-TYPICAL JUNCTION CAPACITANCE

