SR5100L



5.0 AMP SCHOTTKY BARRIER RECTIFIERS

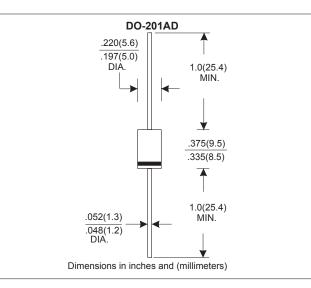
FEATURES

- * 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 100 Volts CURRENT 5.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

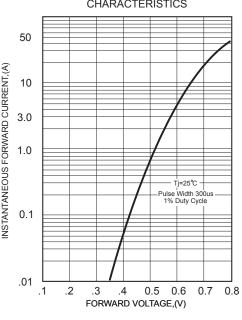
Ratings at 25°C ambient temperature unless otherwise Single phase half-wave 60Hz,resistive or inductive loa	e specified. id,for capacitive load cu	urrent derate by 20%.	
MDD Catalog Number	SYMBOLS	SR5100L	UNITS
Maximum repetitive peak reverse voltage	VRRM	100	VOLTS
Maximum RMS voltage	V _{RMS}	75	VOLTS
Maximum DC blocking voltage	VDC	100	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)	IFSM	150.0	Amps
Maximum instantaneous forward voltage at 5.0A	VF	0.68	Volts
Maximum DC reverse current T _A =25℃ at rated DC blocking voltage T _A =100℃	I _R	0.5 10.0	mA
Typical junction capacitance (NOTE 1)	CJ	380	pF
Typical thermal resistance (NOTE 2)	Reja	42.0	°C/W
Operating junction temperature range	TJ	-65 to +150	°C
Storage temperature range	Тѕтс	-65 to +150	°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 SR5100L

FIG.1-TYPICAL FORWARD **CHARACTERISTICS** 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 -Pulse Width 300us 1% Duty Cycle 0.1



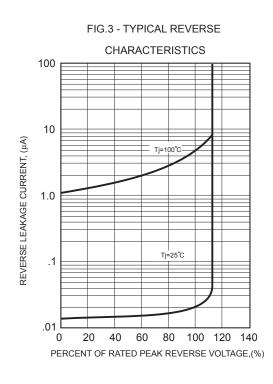




FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

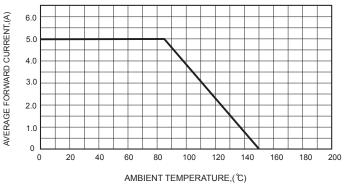


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

