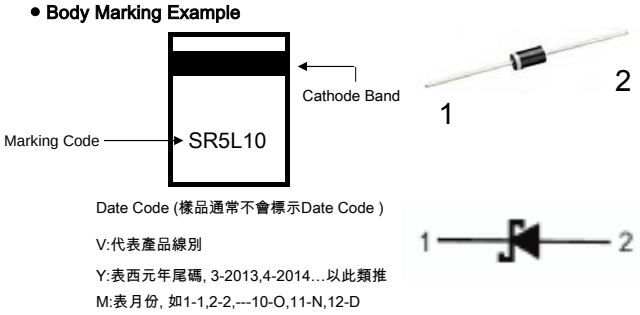
SR5L10

5A LOW VF TRENCH MOS SCHOTTKY RECTIFIERS

PRIMARY CHARACTERISTICS	
V_{RRM}	100V
I_{FSM}	125A
V_F@5A,T_J=125℃	0.62V
I_O	5A
$T_{J\ Max}$	150℃

DO-201AD PACKAGE



FEATURES

- EXTREMELY LOW VF
- TRENCH MOS SCHOTTKY TECHNOLOGY
- LOW POWER LOSS / HIGH EFFICIENCY
- HIGH FREQENCY OPERATION
- HIGH FORWARD SURGE CAPABILITY
- MOISTURE SENSITIVITY LEVEL 1

MECHANICAL DATA

- CASE：TRANSFER MOLDED
- POLARITY：AS MARKED
- TERMINALS：PURETIN PLATED
- LEADS：SOLDERABLE PER MIL-STD-202, METHOD 208

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive of inductive load.
For capacitive load, derate current by 20%

RATINGS	SYMBOL	SR5L10	UNIT
Marking Code		SR5L10	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	Volts
Maximum RMS Voltage	V_{RMS}	70	Volts
Maximum DC Blocking Voltage	V_{DC}	100	Volts
Maximum Average Forward Rectified Current	I_O	5.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	125	Amps
Typical Thermal Resistance (Note 1)	$R_{\Theta Ja}$	25	℃/W
Operating Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +175	℃

CHARACTERISTICS		SYMBOL	SR5L10	UNIT
Maximum Forward Voltage (Note 2)	IF=5A@ Tj=25°C IF=5A@ Tj=125°C	V_F	0.70 0.65	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@T_j =25℃	I_R	0.1	mAmps
	@T_j =125℃		10	

NOTES :1. BOTH LEADS ATTATCHED TO HEATSINK AT LEAD LENGTH 5mm
2. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE.

RATINGS AND CHARACTERISTIC CURVES OF SR5L10

FIG. 1-FORWARD CURRENT DERATING CURVE

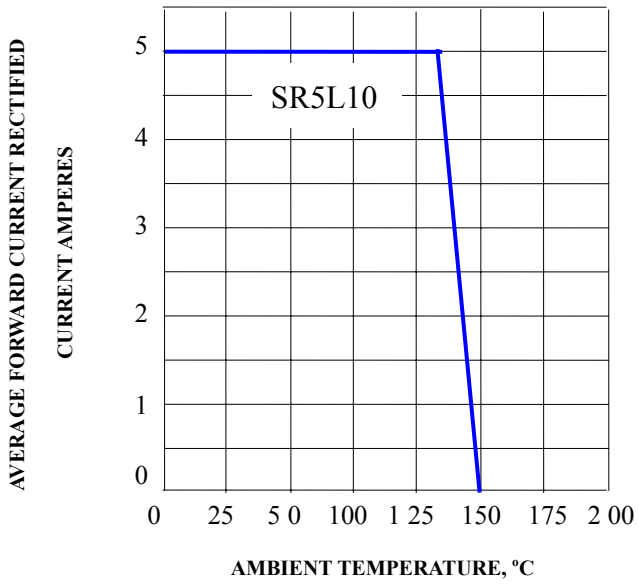


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

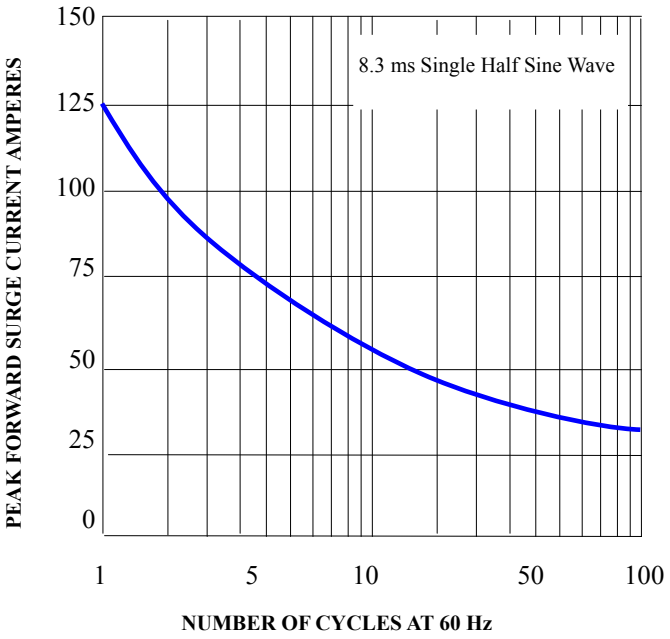


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

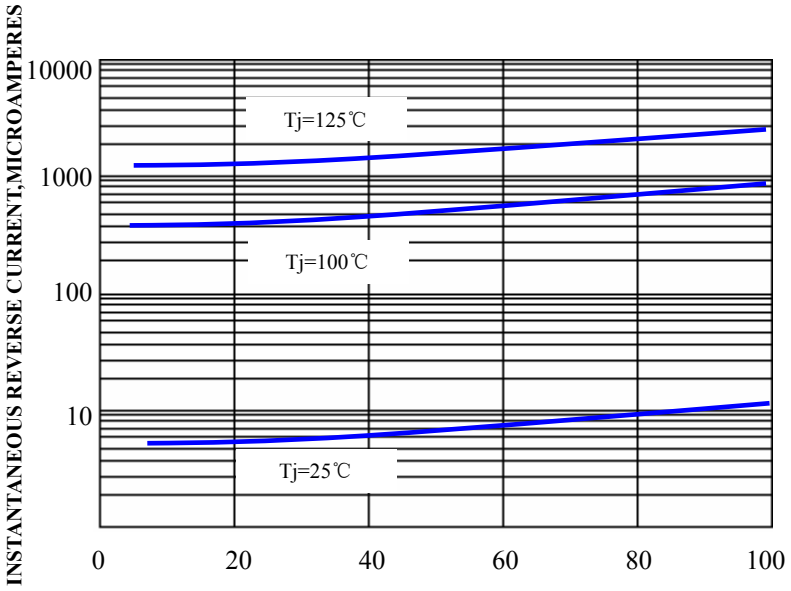
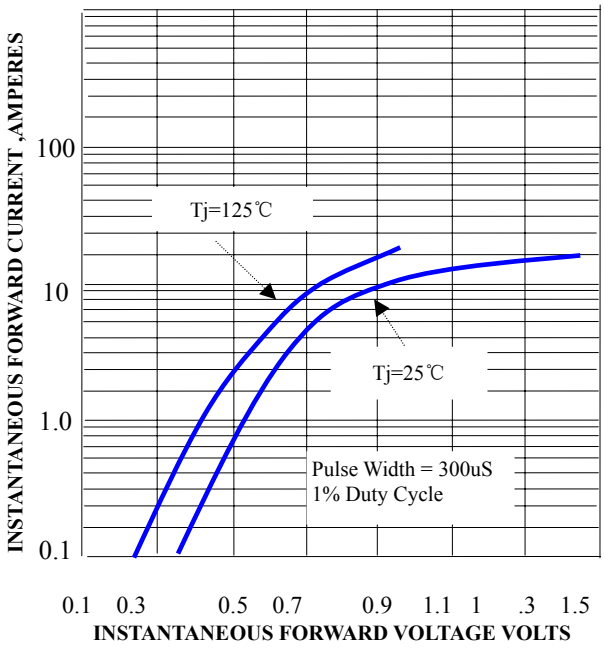
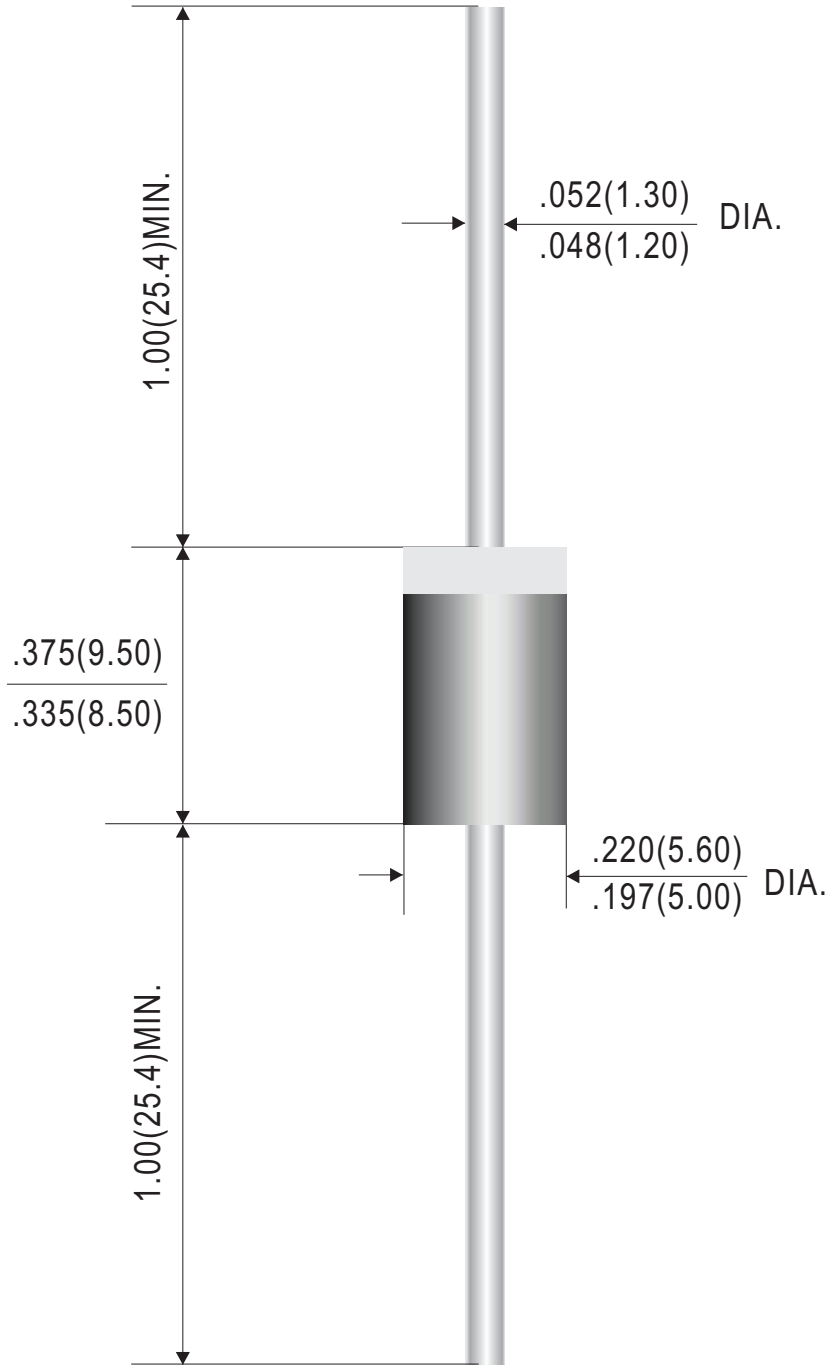


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS



Outline Drawing

DO-201AD



Dimensions in inches and (millimeters)

Rev.B