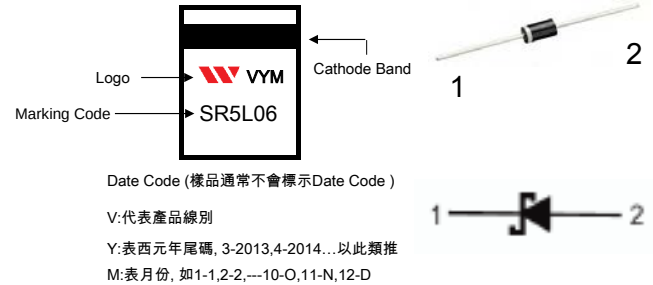


5A LOW VF TRENCH MOS SCHOTTKY RECTIFIERS 5A

PRIMARY CHARACTERISTICS	
V_{RRM}	60V
I_{FSM}	125A
$V_F@5A, T_J=125^{\circ}C$	0.55V
I_O	5A
$T_J \text{ Max}$	150 $^{\circ}C$

FEATURES

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

DO-201AD PACKAGE
• Body Marking Example

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 $^{\circ}C$ ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive of inductive load.

For capacitive load, derate current by 20%

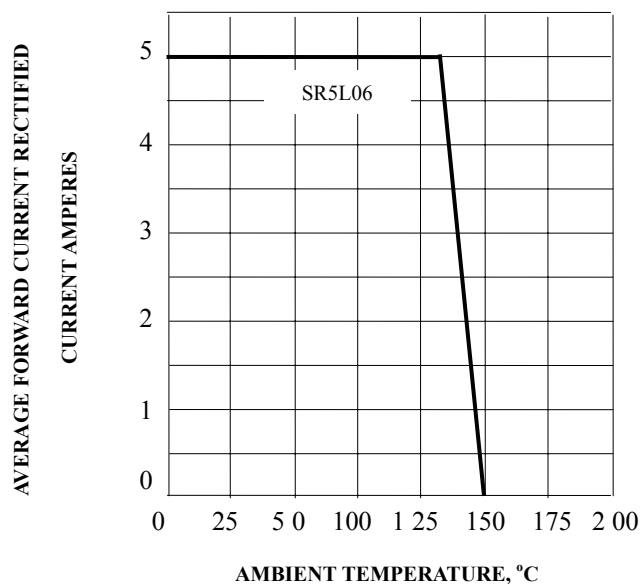
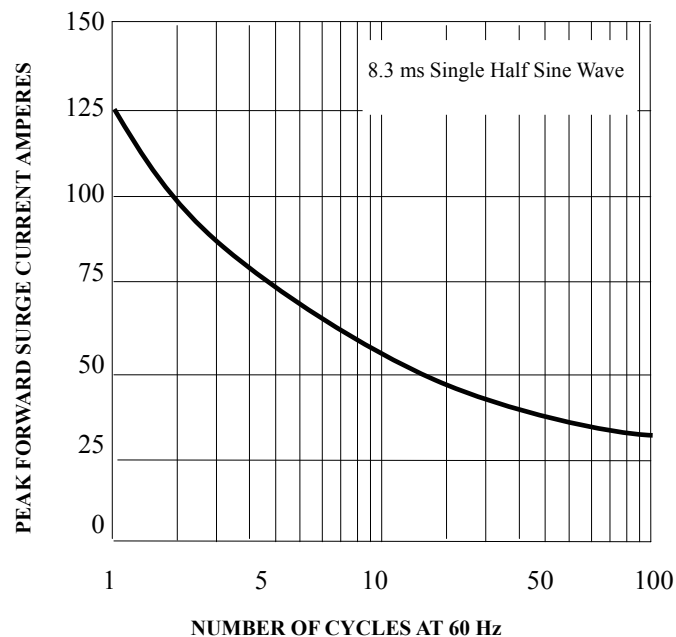
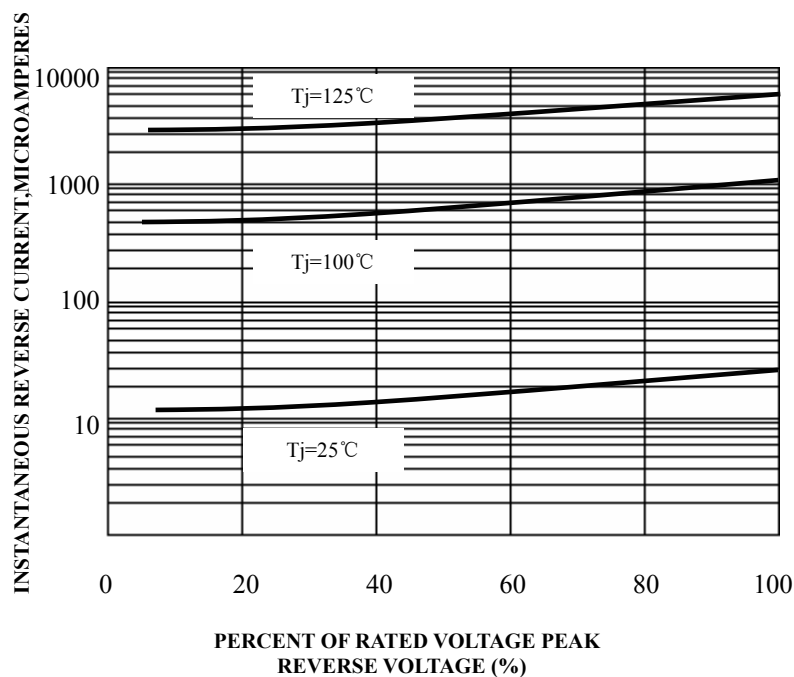
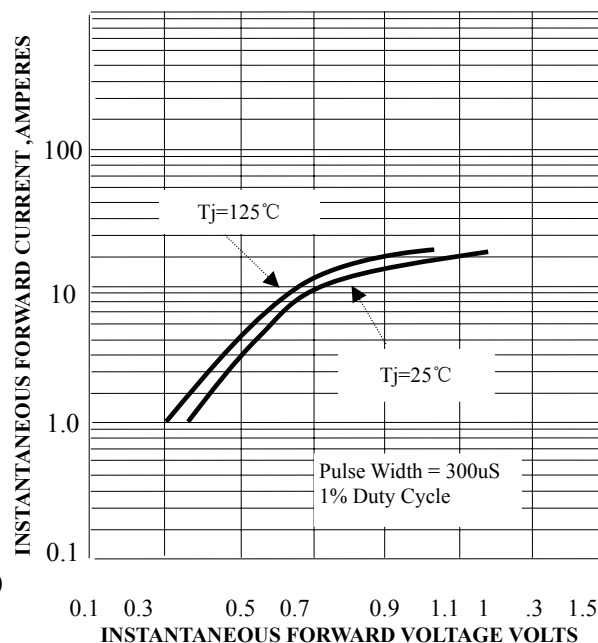
RATINGS	SYMBOL	SR5L06-C3	UNIT
Marking Code		SR5L06	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	Volts
Maximum RMS Voltage	V_{RMS}	42	Volts
Maximum DC Blocking Voltage	V_{DC}	60	Volts
Maximum Average Forward Rectified Current	I_O	5.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	125	Amps
Typical Thermal Resistance (Note 1)	$R_{\theta Ja}$	25	$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

CHARACTERISTICS	SYMBOL	SR5L06-C3	UNIT
Maximum Forward Voltage (Note 2) $I_F=5A@ T_J=25^{\circ}C$ $I_F=5A@ T_J=125^{\circ}C$	V_F	0.58 0.55	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage $@T_J=25^{\circ}C$ $@T_J=125^{\circ}C$	I_R	0.3 25	mAmps

NOTES : 1. BOTH LEADS ATTACHED TO HEATSINK AT LEAD LENGTH 5mm

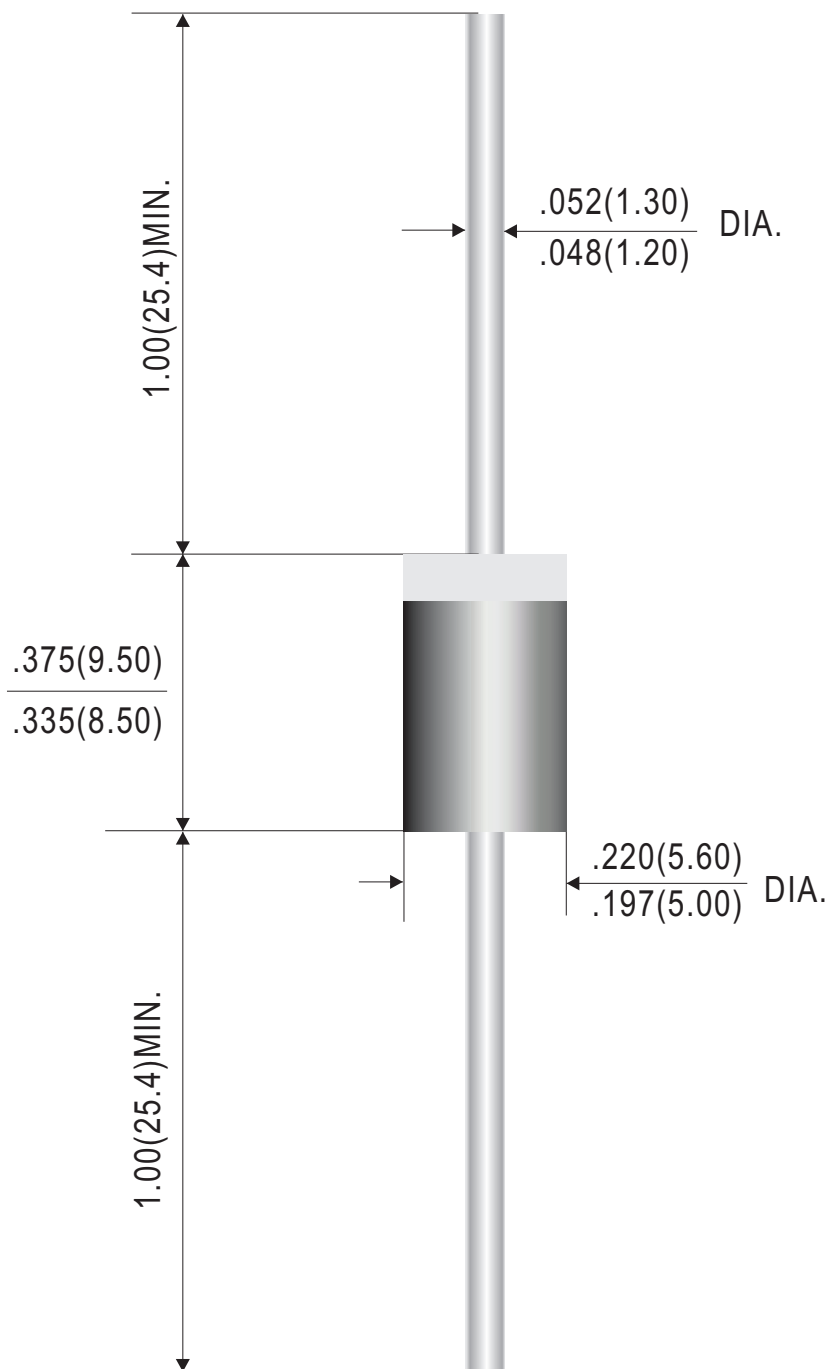
2. PULSE TEST: 300 μ S PULSE WIDTH, 1% DUTY CYCLE.

RATINGS AND CHARACTERISTIC CURVES OF SR5L06

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 CHARACTERISTICS


Outline Drawing

DO-201AD



Dimensions in inches and (millimeters)

Rev.B

**Ordering Information:**

Device PN	Packing
SR5L06-C3- F ⁽¹⁾ G ⁽²⁾ -WS	Ammo Pack:1200pcs/box; 12,000pcs/Carton

Note: 1. Packing code, Ammo Packing

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H"

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