

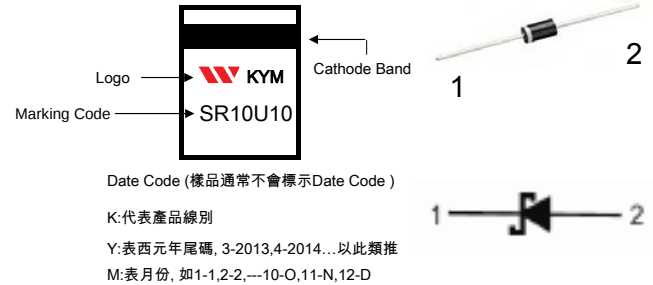
PRIMARY CHARACTERISTICS	
V_{RRM}	100V
I_{FSM}	140A
$V_F@10A, T_J=125^{\circ}C$	0.63V(Typ)
I_O	10A
$T_J \text{ Max}$	150°C

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°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SR10U10-C3	UNIT
Marking Code		SR10U10	
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	10.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	140	Amps
Typical Thermal Resistance (Note 1)	$R_{\theta Ja}$	25	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C

CHARACTERISTICS	SYMBOL	SR10U10-C3	UNIT
Maximum Forward Voltage (Note 2) $I_F=10A@ T_J=25^{\circ}C$ $I_F=10A@ T_J=125^{\circ}C$	V_F	0.68 0.65	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I_R	0.05 10	mAmps
		@ $T_J = 25^{\circ}C$ @ $T_J = 125^{\circ}C$	

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

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



RATINGS AND CHARACTERISTIC CURVES OF SR10U10

FIG. 1-FORWARD CURRENT DERATING CURVE

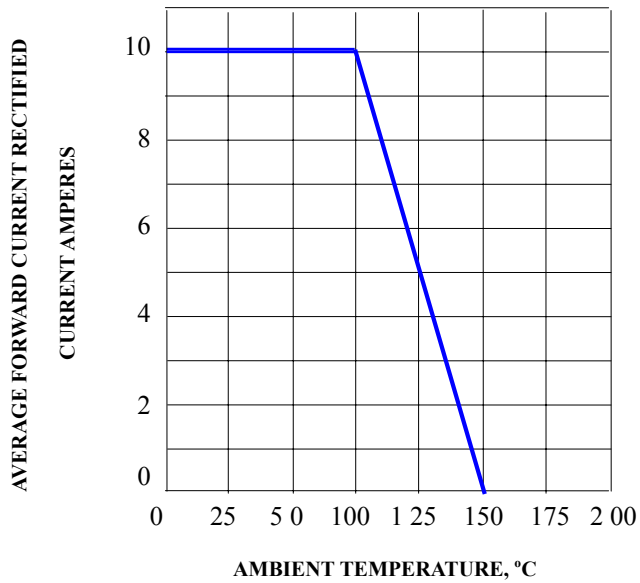


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

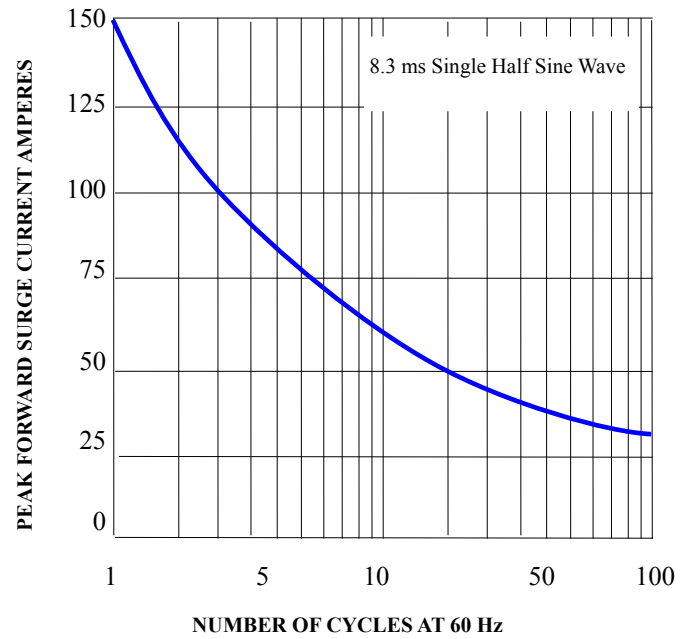


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

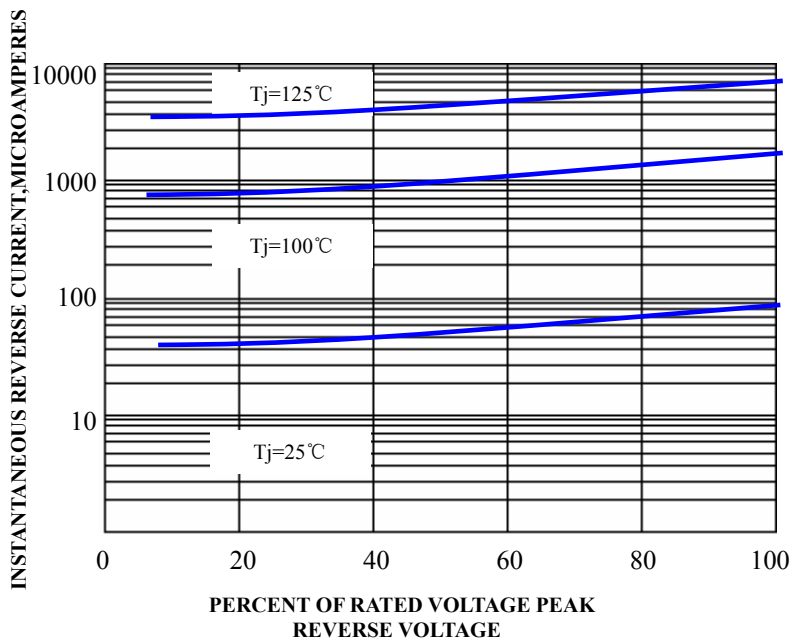
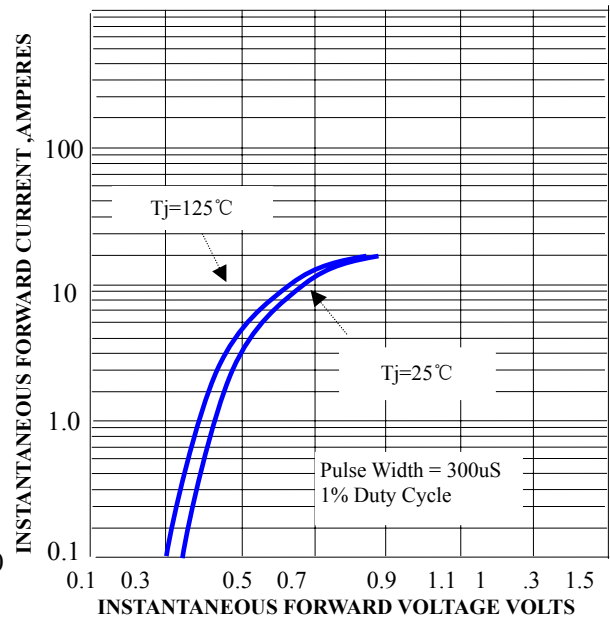
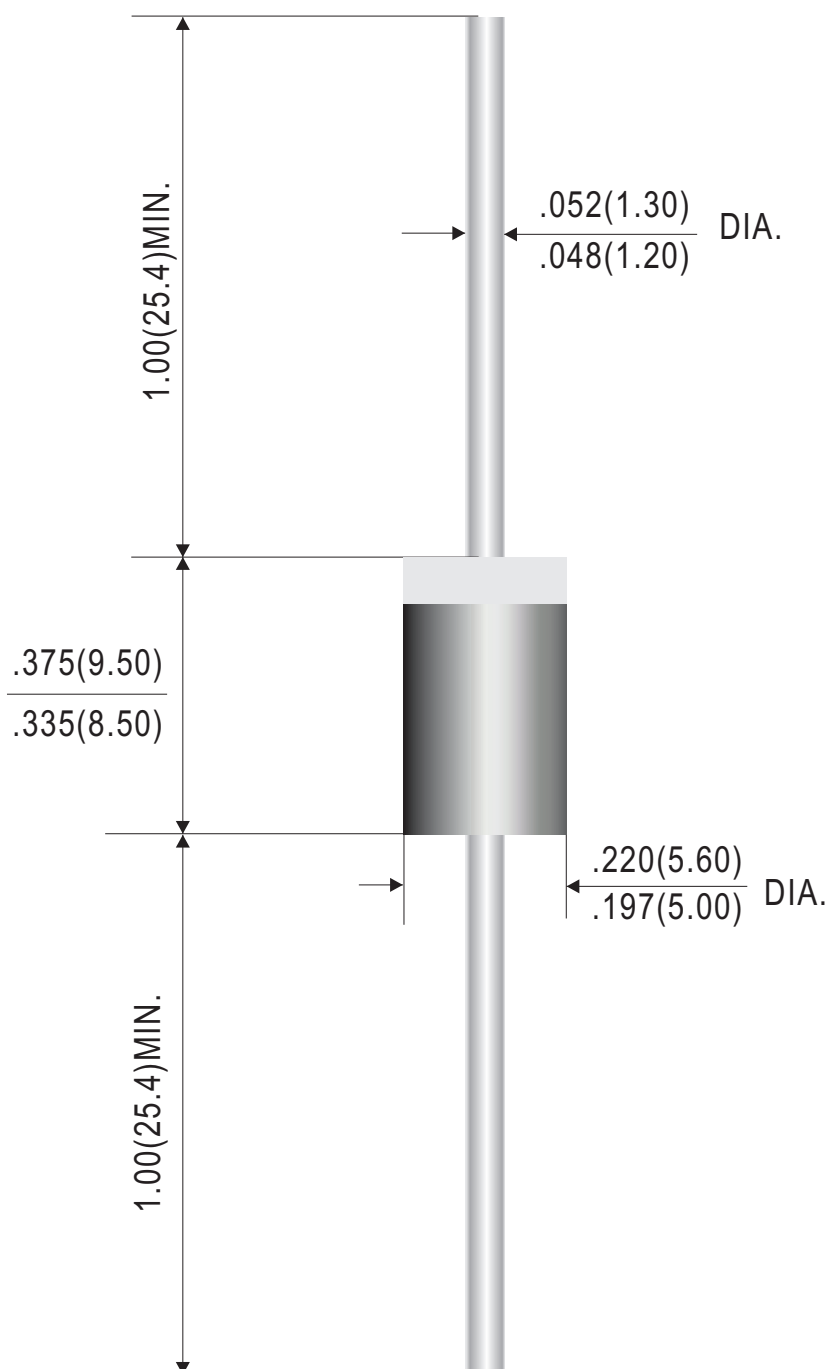


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Outline Drawing

DO-201AD



Dimensions in inches and (millimeters)

Rev.B

Ordering Information:

Device PN	Packing
SR10U10 -C3- F ⁽¹⁾ G ⁽²⁾ -WS	Ammo Pack:1200pcs/box; 12,000pcs/Carton

Note: 1. Packing code, F(T): Tape & Ammo Packing, () is old packing code .

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

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