

5A LOW VF TRENCH MOS SCHOTTKY RECTIFIERS 1N4148

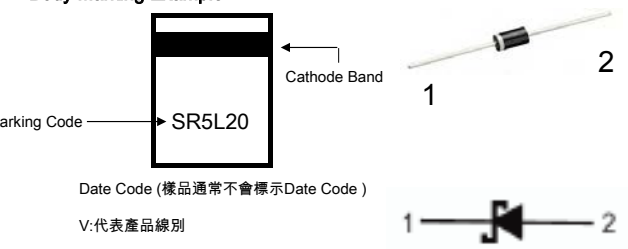


PRIMARY CHARACTERISTICS	
V_{RRM}	200V
I_{FSM}	125A
$V_F@5A, T_J=125^{\circ}C$	0.70V
I_O	5A
$T_J \text{ Max}$	$150^{\circ}C$

FEATURES
<ul style="list-style-type: none"> ● 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



Marking Code → SR5L20

Cathode Band

1 2

Date Code (樣品通常不會標示Date Code)

V:代表產品線別

Y:表西元年尾碼, 3-2013, 4-2014...以此類推

M:表月份, 如1-1, 2-2, ..., 10-O, 11-N, 12-D

MECHANICAL DATA
<ul style="list-style-type: none"> ● 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 or inductive load.
For capacitive load, derate current by 20%

RATINGS	SYMBOL	SR5L20	UNIT
Marking Code		SR5L20	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	Volts
Maximum RMS Voltage	V_{RMS}	140	Volts
Maximum DC Blocking Voltage	V_{DC}	200	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 +175	$^{\circ}C$

CHARACTERISTICS	SYMBOL	SR5L20	UNIT
Maximum Forward Voltage (Note 2) $I_F=5A@ T_J=25^{\circ}C$ $I_F=5A@ T_J=125^{\circ}C$	V_F	0.85 0.72	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage $@T_J=25^{\circ}C$ $@T_J=125^{\circ}C$	I_R	0.01 5	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 SR5L20

FIG. 1-FORWARD CURRENT DERATING CURVE

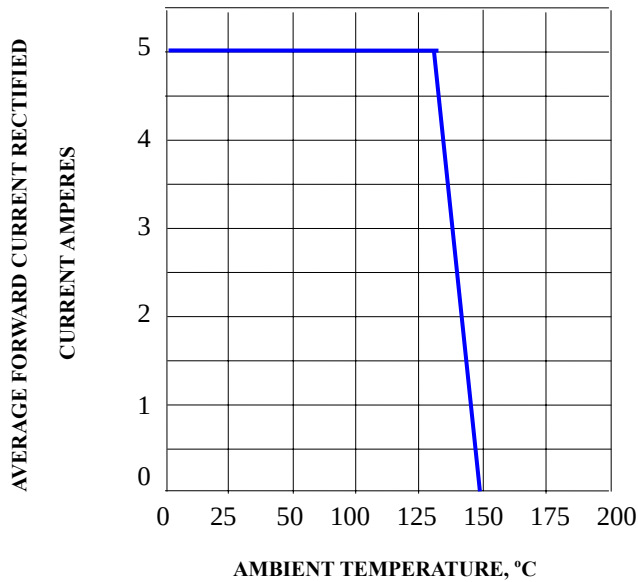


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

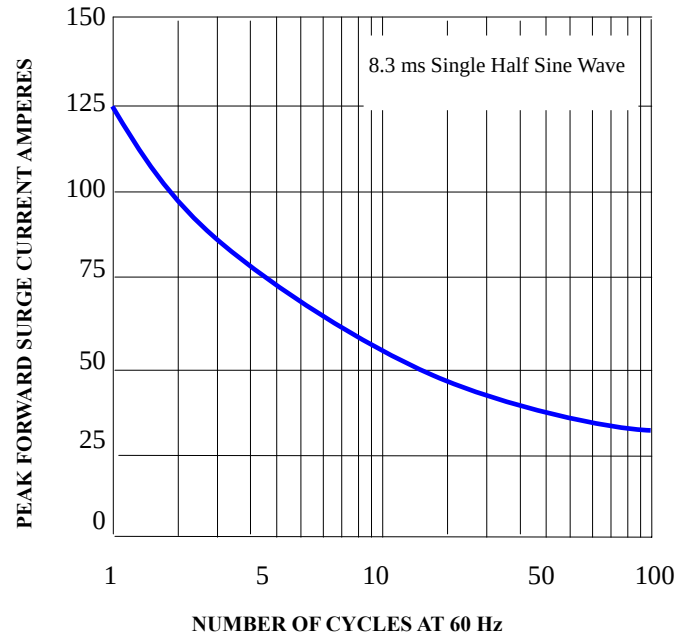


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

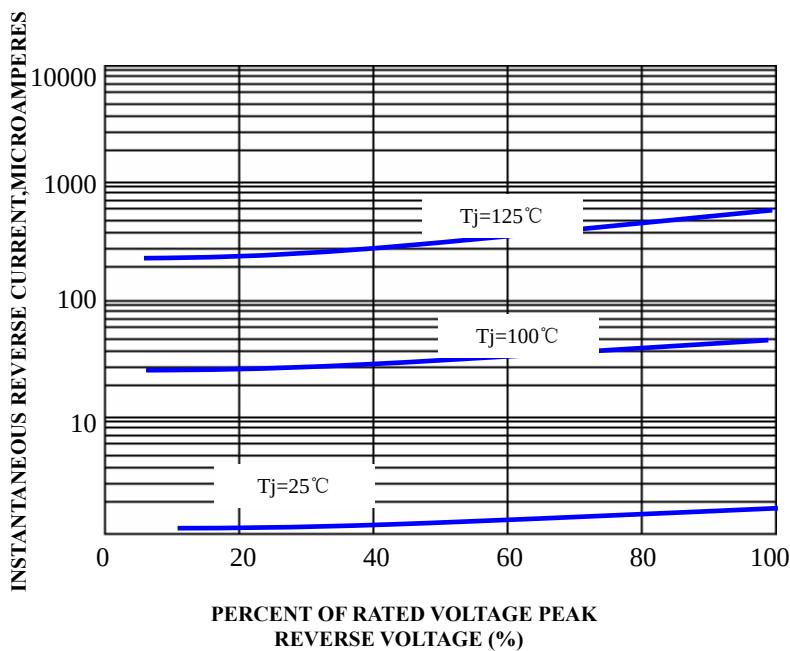
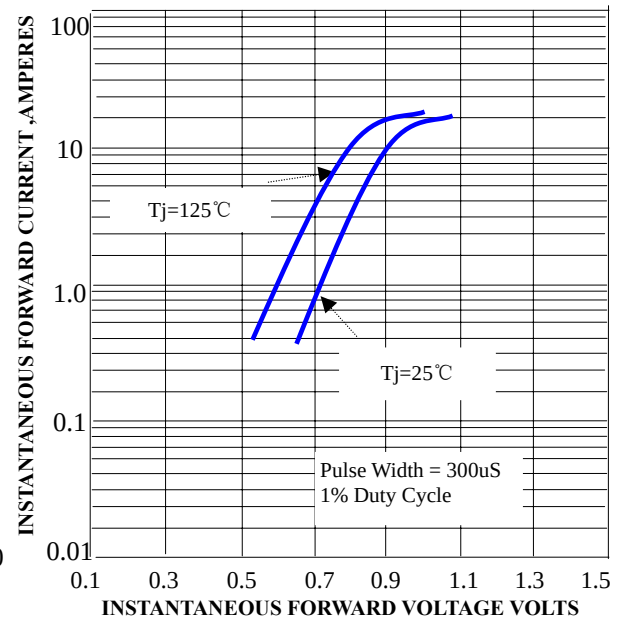
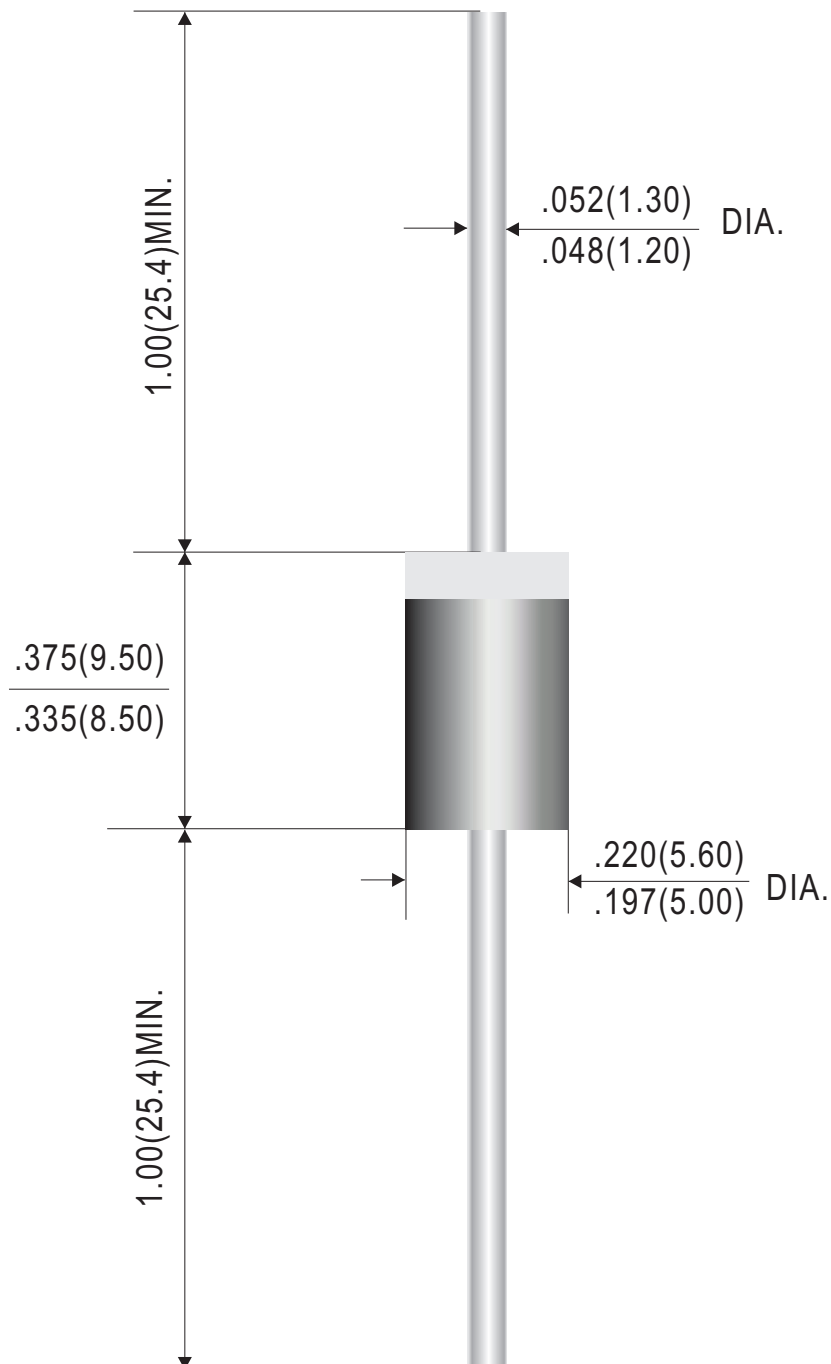


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Outline Drawing

DO-201AD



Dimensions in inches and (millimeters)

Rev.B