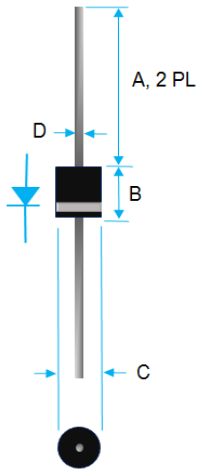
SR1540 THRU SR1560 SPECIFICATION

Rev. A

15A SCHOTTKY BARRIER RECTIFIERS



Dim.	Value In[mm] Min.	Max.
A	1.000[25.40]	---
B	0.340[8.64]	0.360[9.14]
C	0.340[8.64]	0.360[9.14]
D	0.048[1.22]	0.052[1.32]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. EXTREMELY LOW V_F
3. LOW STORED CHARGE
4. MAJORITY CARRIER CONDUCTION
5. LOW POWER LOSS/HIGH EFFICIENCY
6. CASE: TRANSFER MOLDED, P-600
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
9. WEIGHT: 2.1 GRAMS
10. RoHS COMPLIANT, HALOGEN FREE

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (T_A =25°C UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1	I_O	15	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	275	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R\theta ja$	25	°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +175	°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO +150	°C
MAXIMUM REVERSE CURRENT AT 25°C	I_R	0.5	mA
MAXIMUM REVERSE CURRENT AT 100°C	I_R	50	mA

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V_{RRM}/V_R (V)	MAX V_{RMS} (V)	TYPICAL JUNCTION CAPACITANCE C_J (pF)[1]	MAXIMUM FORWARD VOLTAGE V_F(V)[4]
SR1540	40	28	200	0.55
SR1560	60	42	200	0.70

NOTE：
1. MEASURED AT 1MHz WITH APPLIED REVERSE VOLTAGE OF 4V.
2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm.
3. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.
4. MEASURED AT I_O DC.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD DERATING CURVE

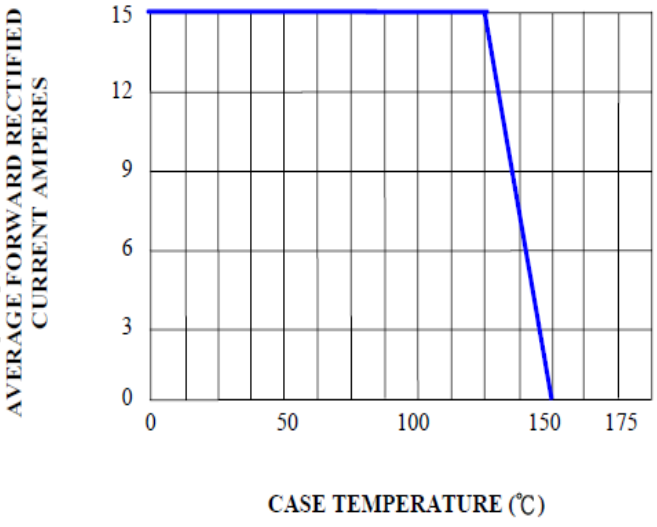


FIG. 2 - PEAK FORWARD SURGE CURRENT

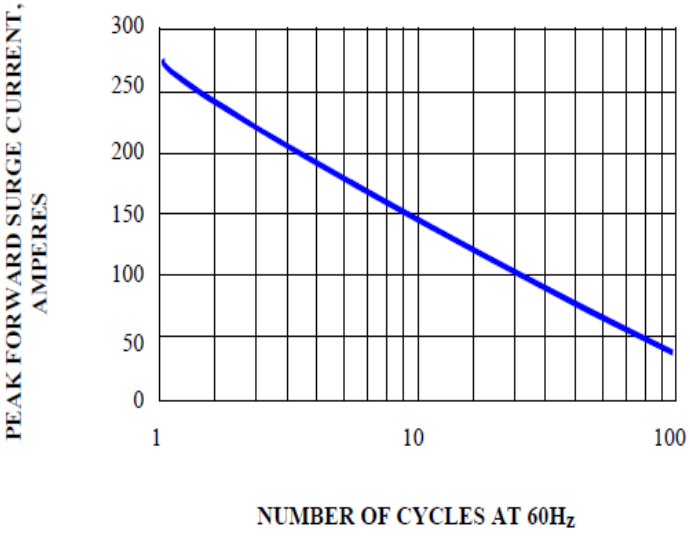


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

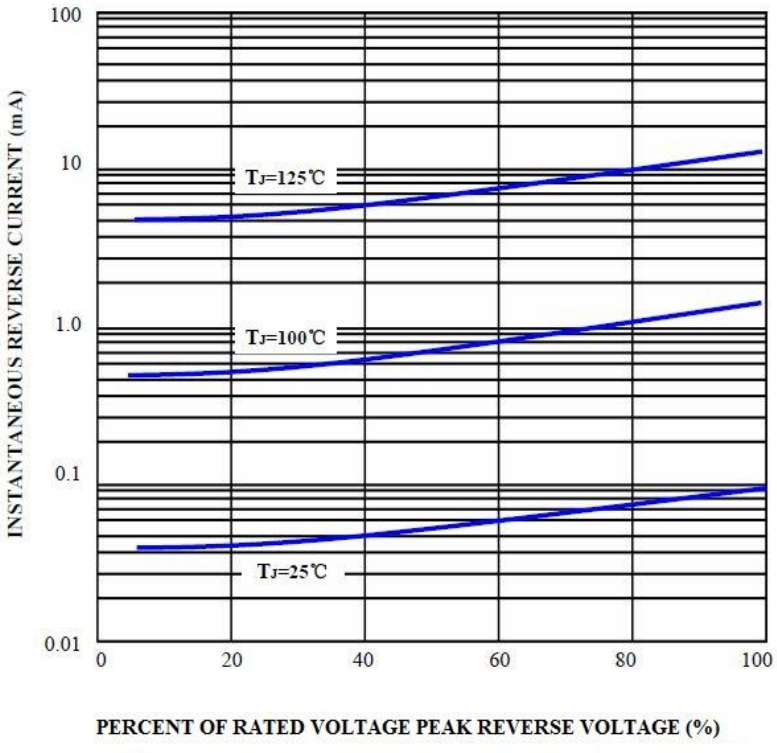
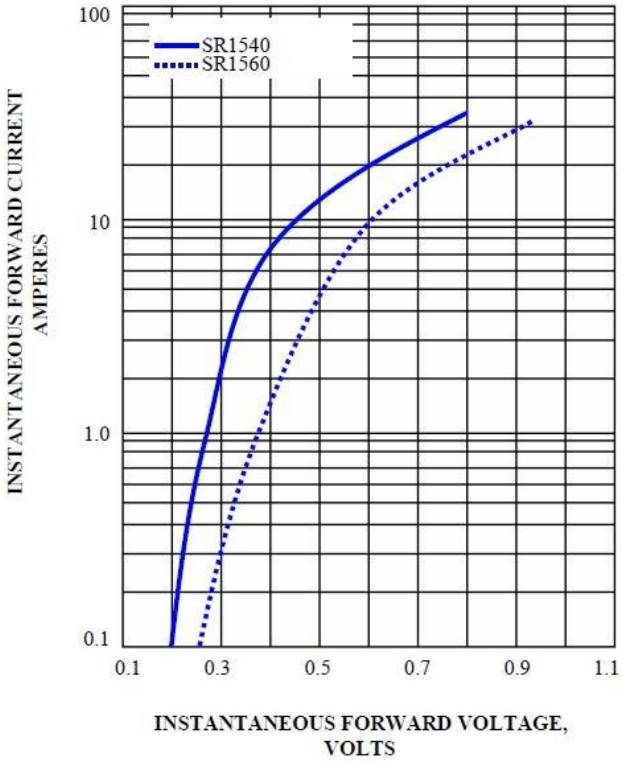


FIG. 4 - TYPICAL FORWARD CHARACTERISTIC PER LEG



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