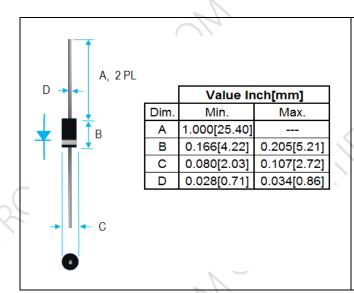


## **1A SCHOTTKY BARRIER RECTIFIERS**



## PRODUCT FEATURES

- 1. FLAMMABILITY CLASSIFICATION 94V-0
- 2. EXTREMELY LOW VF
- LOW STORED CHARGE
- 4. MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS/HIGH EFFICIENCY
- 6. CASE: TRANSFER MOLDED, DO-41
- 7. DIMENSIONS IN INCHES AND (MILLIMETERS)
- B. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
- 9. WEIGHT: 0.34 GRAMS
- 10 RoHS COMPLIANT

## **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	lo	1.0	Α
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I <sub>FSM</sub>	30	Α
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	CJ	110	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	RθjA	50	°C/W
STORAGE TEMPERATURE RANGE	T <sub>STG</sub>	- 55 TO +150	°C
OPERATING TEMPERATURE RANGE (NOTE 4)	Top	- 55 TO +125	°C
MAXIMUM REVERSE CURRENT AT 25°C	I <sub>R</sub>	0.5	mA
MAXIMUM REVERSE CURRENT AT 100°C	IR	10	mA

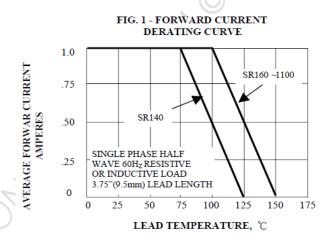
PART NUMBER	MAX RECURRENT PK REVERSE	MAX	MAXIMUM FORWARD VOLTAGE @ Io DC,	
	VOLTAGE/DC BLOCKING V <sub>RRM</sub> /V <sub>R</sub> (V)	V <sub>RMS</sub> (V)	VF(V)	
SR140	40	28	0.55	
SR160	60	42	0.70	
SR1100	100	70	0.85	

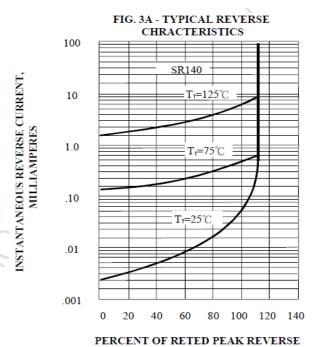
NOTE: 1. MEASURED AT 1MHz WITH APPLIED REVERSE VOLTAGE OF 4V.

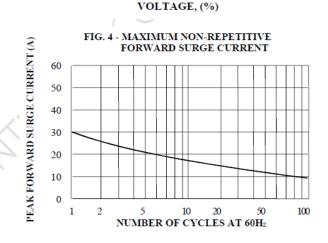
- 2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm.
- 3. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.
- 4. SR160 AND SR1100 OPERATING TEMPERATURE CAN GO UP TO +150°C.

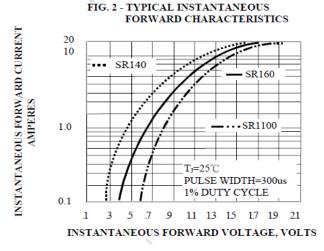


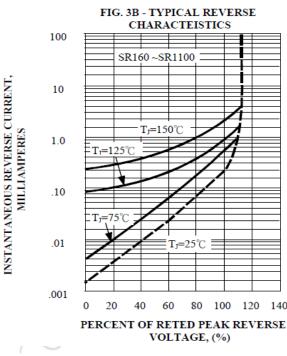
## RATINGS AND CHARACTERISTIC CURVES

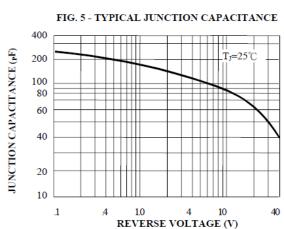












667 E. Cochran St., Simi Valley, CA 93065 Phone: 1-805-522-9998, Fax: 1-805-522-9989