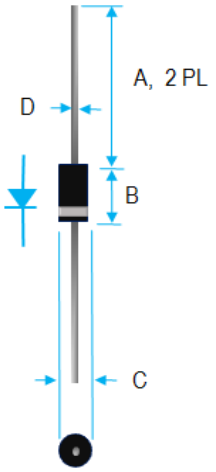
SR240 THRU SR2100 SPECIFICATION

Rev. A

2A SCHOTTKY BARRIER RECTIFIERS



Dim.	Value Inch[mm] Min.	Max.
A	1.000[25.40]	---
B	0.166[4.22]	0.205[5.21]
C	0.080[2.03]	0.107[2.72]
D	0.028[0.71]	0.034[0.86]

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, DO-41
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. 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	I_O	2.0	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	50	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jA}$	40	°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +150	°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	20	mA

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V_{RRM}/V_R (V)	MAX V_{RMS} (V)	MAXIMUM FORWARD VOLTAGE @ I_O DC V_F (V)	TYPICAL JUNCTION CAPACITANCE C_J (pF)
SR240	40	28	0.55	90
SR260	60	42	0.70	110
SR2100	100	70	0.85	110

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%.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

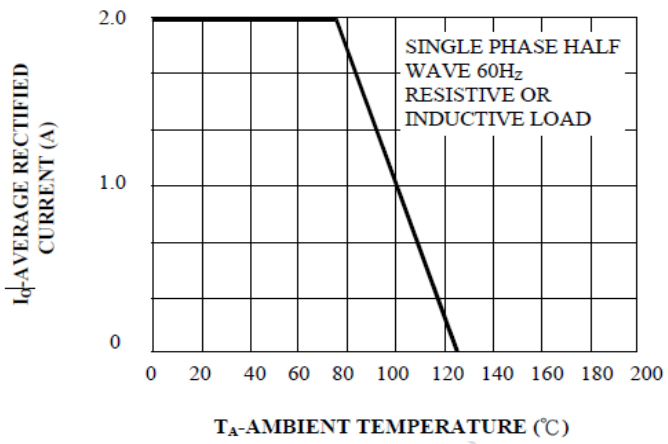


FIG.2 - TYPICL OINSTANTANEOUS FORWARD CHARACTERISTICS

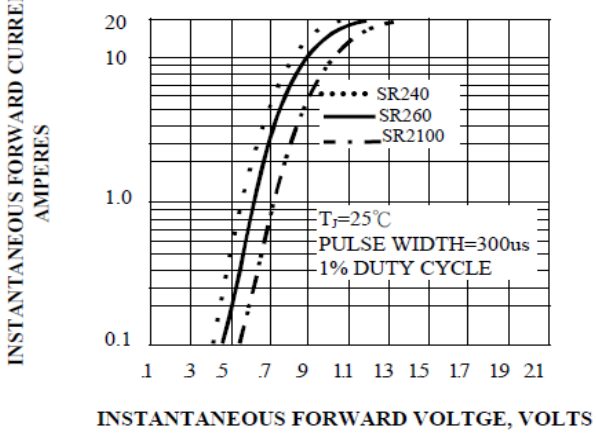


FIG. 3 - TYPICAL REVERSE CHRACTERISTICS

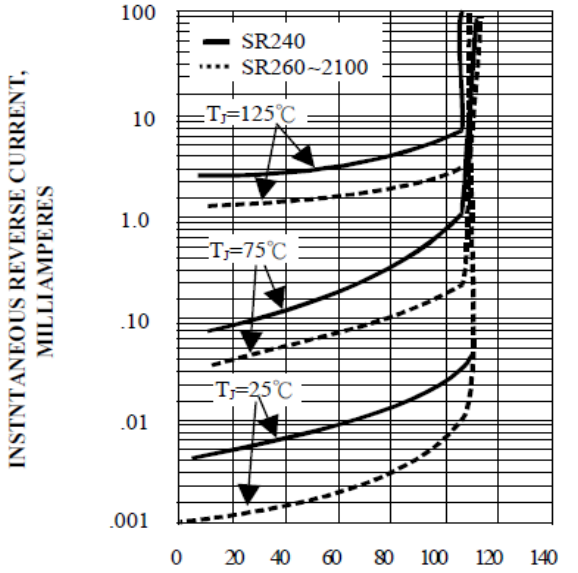


FIG. 4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

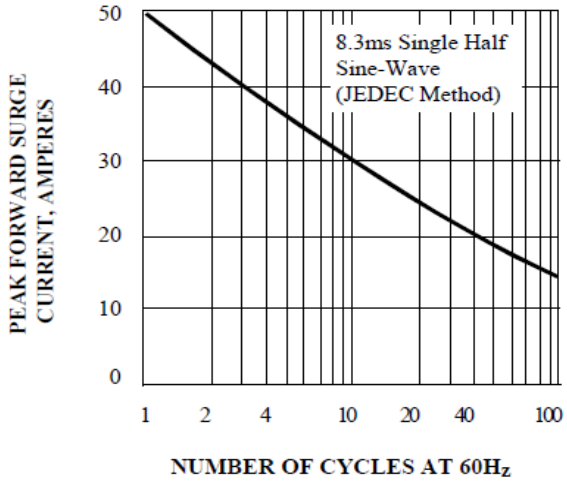
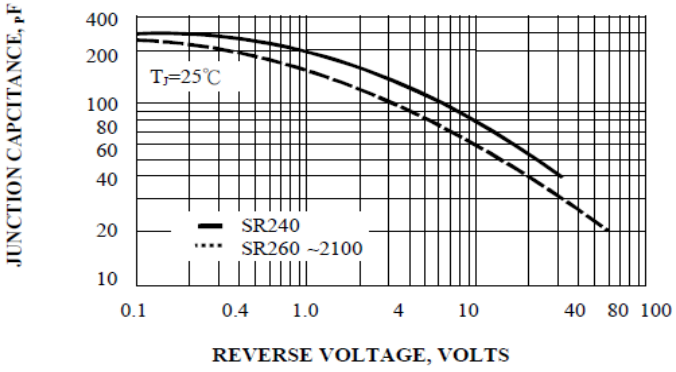


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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