



**SR302
THRU
SR310**

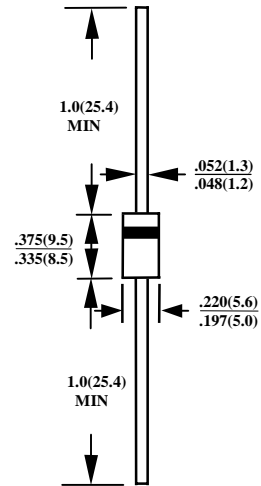
3A SCHOTTKY BARRIER RECTIFIERS

FEATURES

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND

MECHANICAL DATA

- CASE : TRANSFER MOLDED
- LEADS : SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY : CATHODE INDICATED BY COLOR BAND
- WEIGHT : 1.2 GRAMS



CASE : DO201AD
DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.
FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	SR302	SR303	SR304	SR305	SR306	SR307	SR308	SR309	SR310	UNITS	
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V _{RRM}	20	30	40	50	60	70	80	90	100	V	
MAXIMUM RMS VOLTAGE	V _{RMS}	14	21	28	35	42	49	56	63	70	V	
MAXIMUM DC BLOCKING VOLTAGE	V _{DC}	20	30	40	50	60	70	80	90	100	V	
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH AT TA=55°C	I _O	3.0									A	
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I _{FSM}	80									A	
TYPICAL JUNCTION CAPACITANCE	C _J	250			200						PF	
STORAGE TEMPERATURE RANGE	T _{STG}	- 55 TO + 150										°C
OPERATING TEMPERATURE RANGE	T _{OP}	- 55 TO + 125			- 55 TO + 150							°C

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	SR302	SR303	SR304	SR305	SR306	SR307	SR308	SR309	SR310	UNITS	
MAXIMUM FORWARD VOLTAGE AT I _O DC	V _F	0.50			0.74		0.79					V
MAXIMUM REVERSE CURRENT AT 25°C	I _R	2.0									mA	

- NOTES : 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. BOTH LEADS ATTACHED TO HEATSINK 20x20x1t(mm) COPPER PLATE AT LEAD LENGTH 5mm

RATING AND CHARACTERISTIC CURVES SR302 THRU SR310

FIG. 1 - FORWARD CURRENT DERATING CURVE

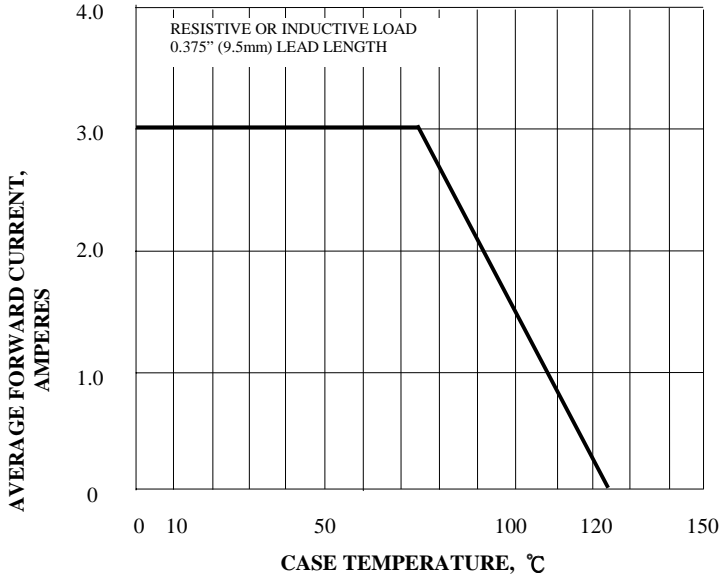


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

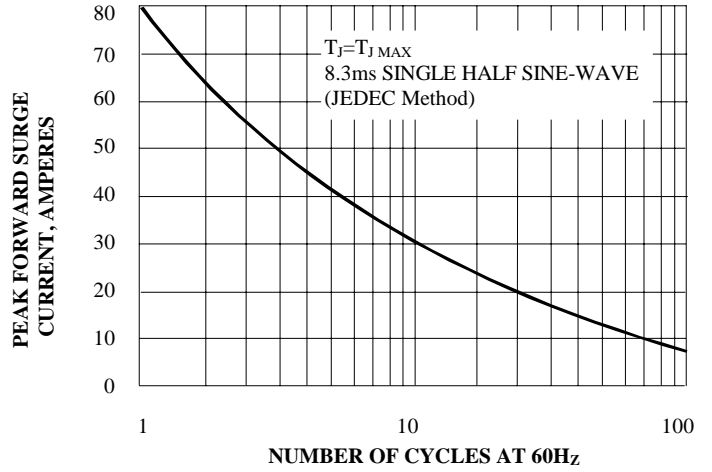


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

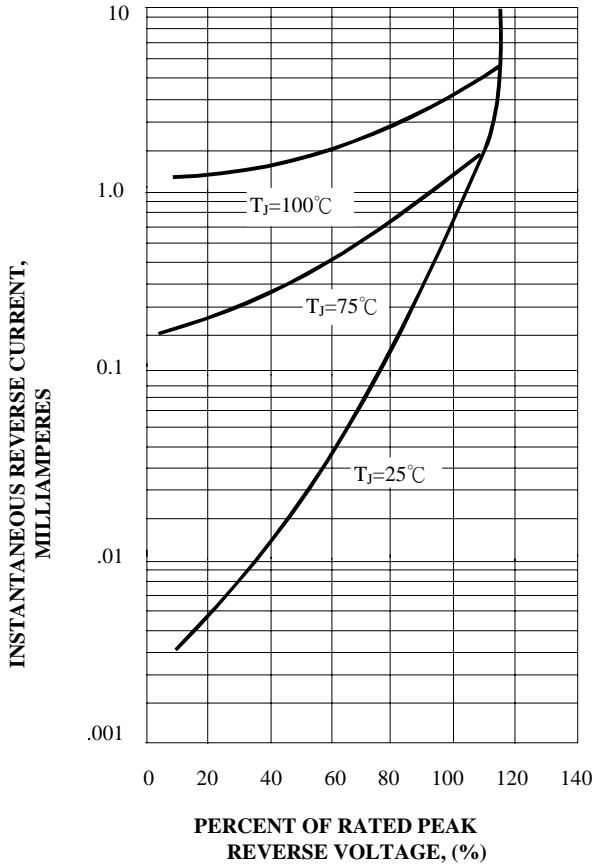


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

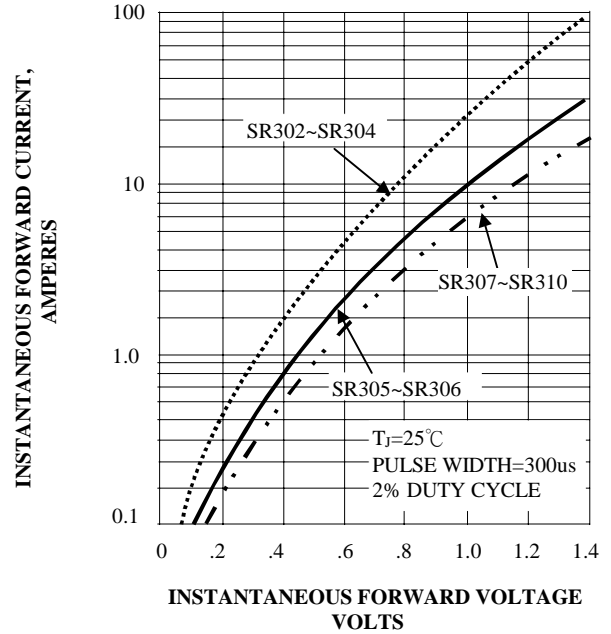


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

