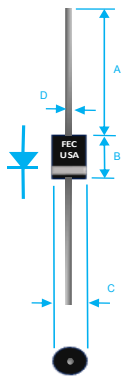


## 8A SCHOTTKY BARRIER RECTIFIERS



Dim.	Value in [mm]	
	Min.	Max.
A	1.000[25.40]	---
B	0.335[8.51]	0.375[9.52]
C	0.197[5.00]	0.220[5.59]
D	0.048[1.22]	0.052[1.32]

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. LOW POWER LOSS/HIGH EFFICIENCY
4. LOW STORED CHARGE
5. MAJORITY CARRIER CONDUCTION
6. CASE: DO201AD
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: INDICATED BY CATHODE BAND
9. WEIGHT: 1.2 GRAMS
10. MIL-STD-202, METHOD 208
11. ROHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT 0.375" (9.5mm) LEAD LENGTH (SEE FIG.1)	IO	8	A
PEAK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	150	A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	CJ	250	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqjl	5	°C/W
MAXIMUM REVERSE CURRENT AT 25°C	IR	1000	uA

1. MEASURED AT 1.0MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VDC

2. THERMAL RESISTANCE FROM JUNCTION TO LEAD VERTICAL P.C.B. MOUNTING , 9.5mm LEAD LENGTH

3. MAXIMUM FORWARD VOLTAGE AT IO DC

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)	TYP JUNCTION CAP (NOTE1) CJ (PF)	MAXIMUM FORWARD VOLTAGE VF (V)	MAXIMUM REVERSE CURRENT @ HIGH TEMP. IR (uA)
SR803	30	21	30	250	0.62	10000
SR804	40	28	40	250	0.62	10000
SR805	50	35	50	200	0.8	20000
SR806	60	42	60	200	0.8	20000

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

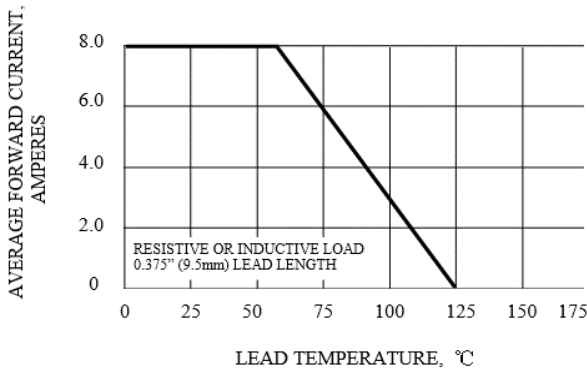


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

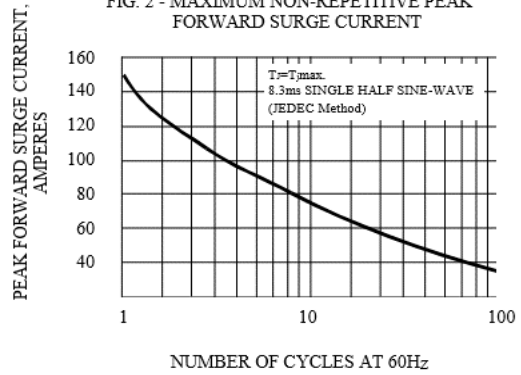


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

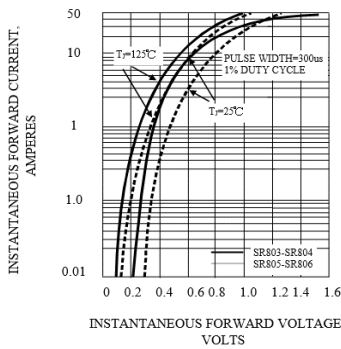


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

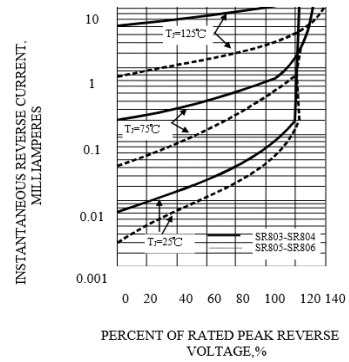


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

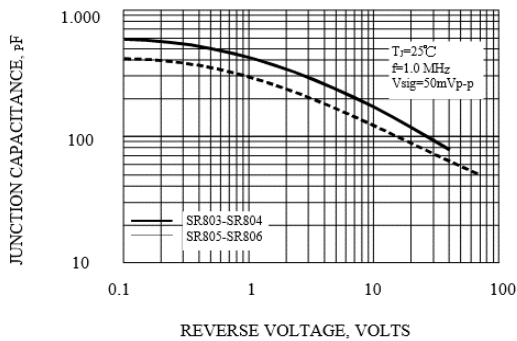


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

