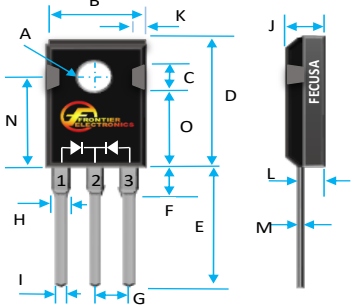


## 30A SCHOTTKY BARRIER RECTIFIERS



Dim.	Value in [mm]	
	Min.	Max.
A	0.130[3.30]	0.138[3.51]
B	---	0.638[16.21]
C	0.197[5.00]	0.236[5.99]
D	---	0.866[22.0]
E	0.748[19.00]	---
F	---	0.177[4.50]
G	0.222[5.64]	0.238[6.05]
H	---	0.098[2.49]
I	---	0.035[0.89]
J	0.185[4.70]	0.209[5.31]
K	0.067[1.70]	0.106[2.69]
L	0.094[2.39]	0.110[2.79]
M	0.018[0.46]	0.598[15.19]
N	0.583[14.81]	0.598[15.19]
O	0.46[11.71]	0.500[12.70]

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. HIGH CURRENT CAPABILITY
3. LOW FORWARD VOLTAGE DROP
4. LOW POWER LOSS, HIGH EFFICIENCY
5. METAL TO SILICON RECTIFIER ,MAJORITY CARRIER
6. HIGH SURGE CAPABILITY
7. EPITAXIAL CONSTRUCTION
8. CASE: MOLDED PLASTIC, TO-3P
9. DIMENSIONS IN INCHES AND (MILLIMETERS)
10. POLARITY: AS MARKED
11. WEIGHT: 6.4 GRAMS
12. MIL-STD-202, METHOD 208
13. PULLING TEST: 2.3 KG
14. 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(SEE FIG.1)	IO	30	
PEAK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	300	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rajc	1.4	°C/W
MAXIMUM REVERSE CURRENT AT 25 °C (NOTE 1) PER LEG	IR	5000	uA

1. PULSE TEST: 300µS PULSE WIDTH, 1% DUTY CYCLE
2. THERMAL RESISTANCE FROM JUNCTION TO CASE PER LEG MOUNTED ON HEAT SINK
3. MAXIMUM REVERSE CURRENT AT 25°C and 100°C PER LEG
4. MAXIMUM FORWARD VOLTAGE AT 15A DC

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)	MAXIMUM FORWARD VOLTAGE VF (V)	MAXIMUM REVERSE CURRENT @ HIGH TEMP. IR (uA)
SR30-03	30	21	30	0.6	60000
SR30-035	35	24	35	0.6	60000
SR30-04	40	28	40	0.6	60000
SR30-045	45	31	45	0.6	60000
SR30-05	50	35	50	0.7	100000
SR30-06	60	42	60	0.7	100000



# SR30-03 THRU SR30-06 SPECIFICATIONS

Rev. A

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD DERATING CURVE

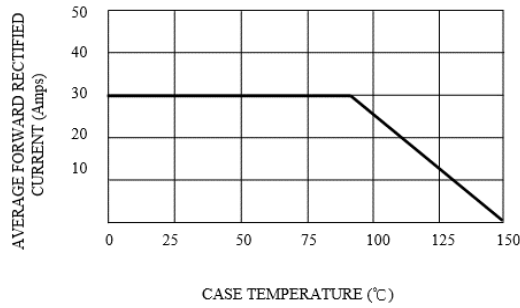


FIG. 2 - PEAK FORWARD SURGE CURRENT

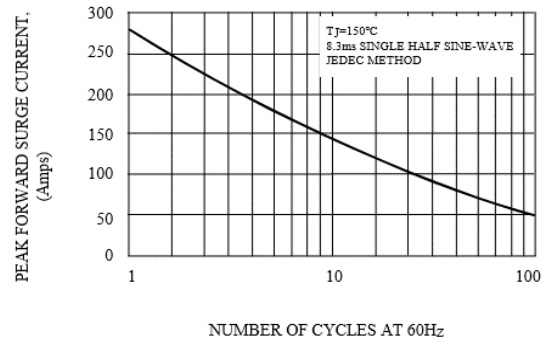


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

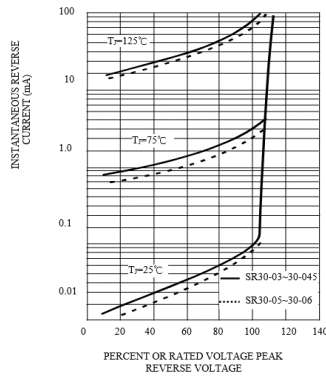


FIG. 4 - TYPICAL FORWARD CHARACTERISTIC

