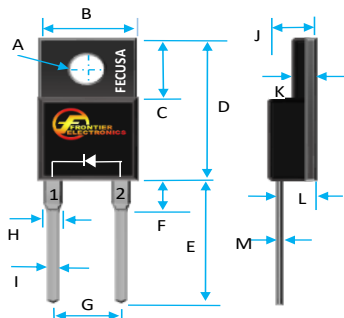


## 16A SCHOTTKY BARRIER RECTIFIERS



Dim.	Value in [mm]	
	Min.	Max.
A	---	0.134[3.40]
B	0.382[9.70]	0.404[10.26]
C	0.248[6.30]	0.272[6.91]
D	0.570[14.48]	0.610[15.49]
E	0.511[12.98]	0.543[13.79]
F	---	0.161[4.09]
G	0.095[2.41]	0.105[2.67]
H	0.195[4.95]	0.204[5.18]
I	---	0.035[0.89]
J	---	0.189[4.80]
K	---	0.122[3.10]
L	0.098[2.49]	0.114[2.90]
M	---	0.031[0.79]

### 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: ITO-220AC, FULLY INSULATED PACKAGE
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: AS MARKED
9. WEIGHT 1.81 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 (SEE FIG.1)	IO	16	A
PEAK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	200	A
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	Rajc	5	°C/W
MAXIMUM REVERSE CURRENT AT 25 °C (NOTE 1) PER LEG	IR	5000	uA
MAXIMUM REVERSE CURRENT AT 100 °C (NOTE 1) PER LEG	IR	50000	uA

1. PULSE TEST: 300µS PULSE WIDTH, 1% DUTY CYCLE
2. MAXIMUM FORWARD VOLTAGE AT IO

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)
SRF16-03	30	21	30	0.6
SRF16-035	35	24	35	0.6
SRF16-04	40	28	40	0.6
SRF16-045	45	31	45	0.6
SRF16-05	50	35	50	0.7
SRF16-06	60	42	60	0.7
SRF16-08	80	56	80	0.85
SRF16-09	90	63	90	0.85
SRF16-10	100	70	100	0.85



## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD DERATING CURVE

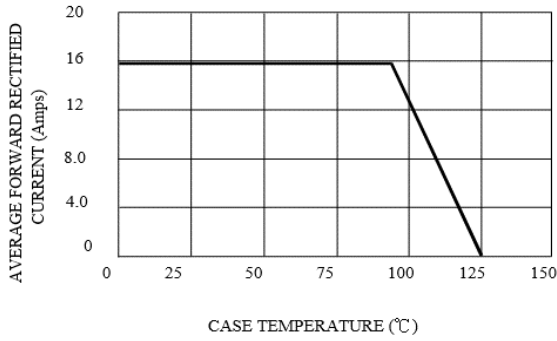


FIG. 2 - PEAK FORWARD SURGE CURRENT

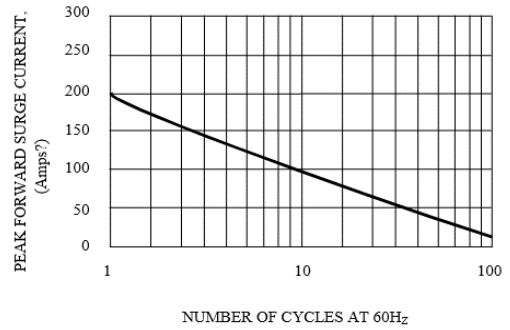


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

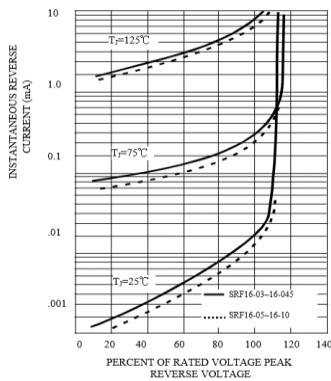


FIG. 4 - TYPICAL FORWARD CHARACTERISTIC

