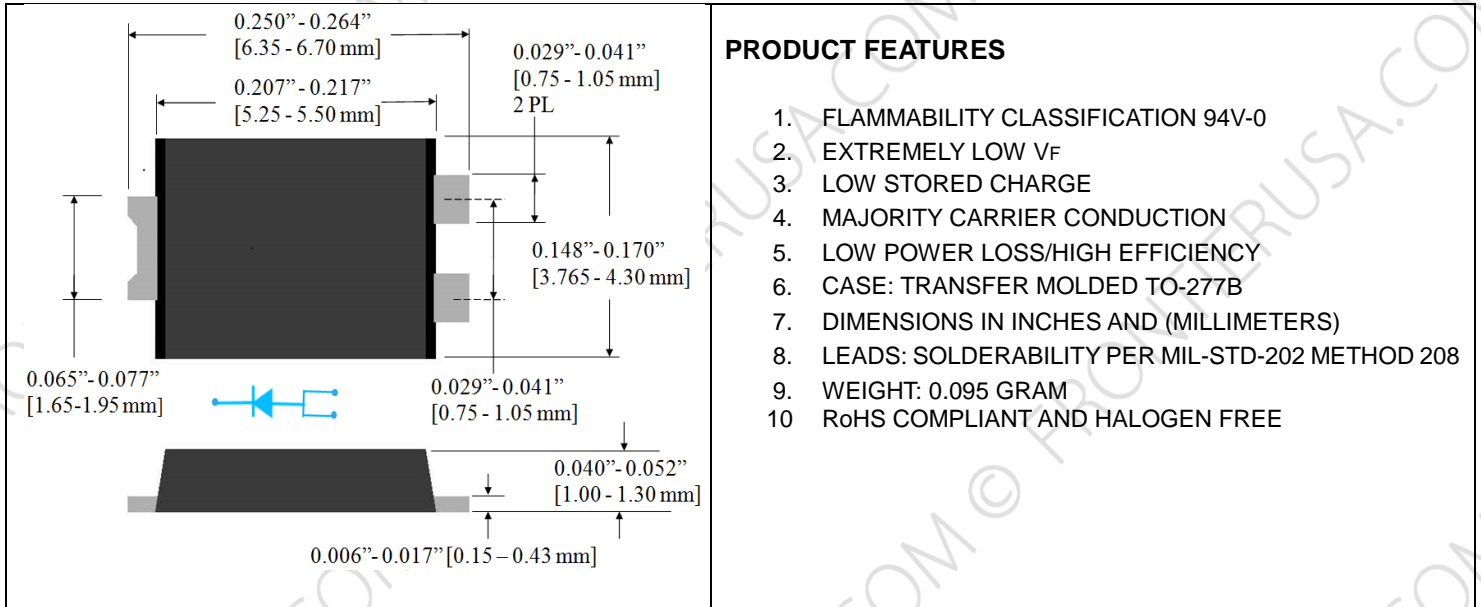


## 15A SCHOTTKY BARRIER RECTIFIERS



## ELECTRICAL CHARACTERISTICS

### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED ) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1	$I_o$	15	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	240	A
TYPICAL THERMAL RESISTANCE	$R_{\theta JC}$	23	$^\circ\text{C/W}$
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 65 TO +175	$^\circ\text{C}$
OPERATING TEMPERATURE RANGE	$T_J$	- 55 TO +150	$^\circ\text{C}$
MAXIMUM REVERSE CURRENT AT $25^\circ\text{C}$ PER LEG (NOTE 1)	$I_R$	0.5	mA
MAXIMUM REVERSE CURRENT AT $125^\circ\text{C}$ PER LEG (NOTE 1)	$I_R$	20	mA

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING $V_{RRM}/V_R$ (V)	MAX $V_{RMS}$ (V)	MAXIMUM FORWARD VOLTAGE $V_F$ @ $I_F=15A$	
			@ $25^\circ\text{C}$	@ $125^\circ\text{C}$
F15S45	45	31.5	0.49V	0.45V
F15S50	50	35	0.49V	0.45V

NOTE : 1. PULSE TEST: 300 $\mu\text{s}$  PULSE WIDTH, 1% DUTY CYCLE.

2. 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 DERATING CURVE

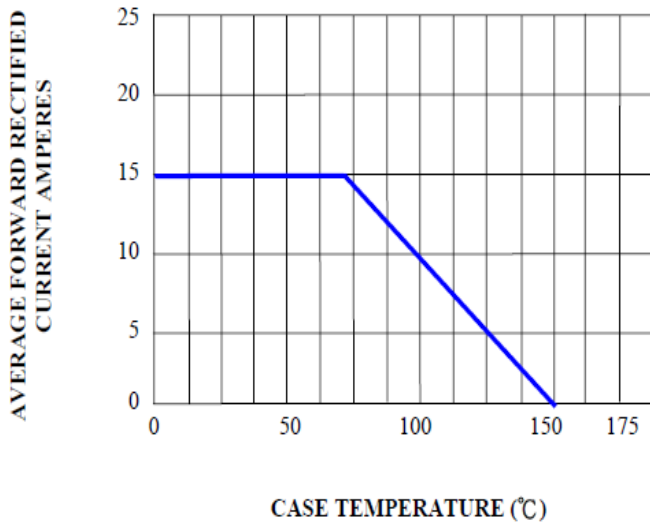


FIG. 2 - PEAK FORWARD SURGE CURRENT

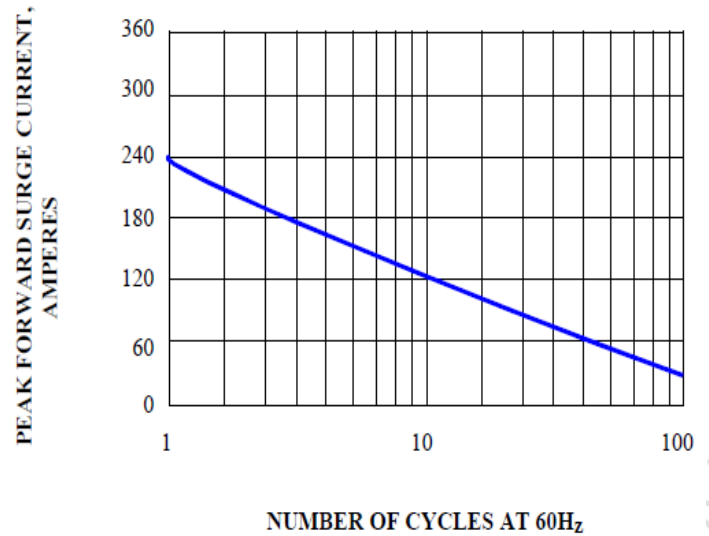


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

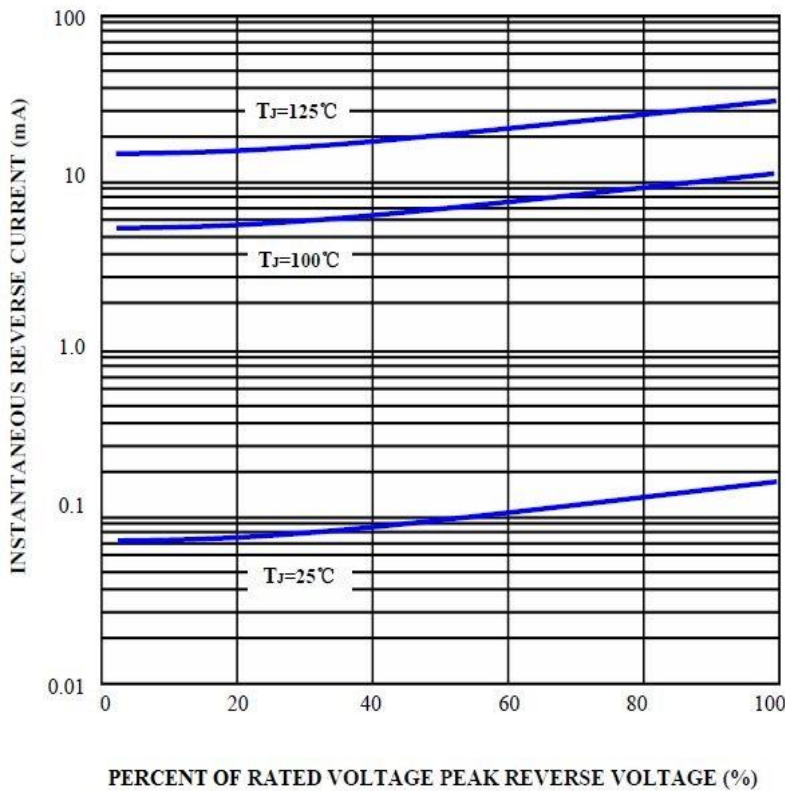


FIG. 4 - TYPICAL FORWARD CHARACTERISTIC PER LEG

