LOW VF SCHOTTKY RECTIFIER

Reverse Voltage - 45 V

Forward Current -30 A

FEATURES

- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses High efficiency
- Guarding for over voltage protection

APPLICATIONS

Low VF Schottky barrier rectifier are designed for high freqency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

Primary Characteristic

I_o	**2*15A**
V_{RRM}	**45V**
I_{FSM}	**260A**
V_F	**0.4V**
T_J Max	**150ÁC**

Maximum Ratings (Per Leg) At Ta=25ÁC Unless Otherwise Specified

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	31.5	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum Average Forward Rectified Current	I_o	2*15	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	260	A
Operating Temperature Range	T_J	150	ÁC
Storage Temperature Range	T_{STG}	-40 ~ +150	ÁC
Typical Thermal Resistance (Note1)	R_{dJA}/ R_{dJC}	2	ÁC/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) Unless Otherwise Specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop(Note2)			Typ	Max	
at I_F=5A	TA=25°C	V_F	0.38	-	V
	TA=125°C		0.28	-	
at I_F=10A	TA=25°C		0.43	-	
	TA=125°C		0.3		

RATINGS AND CHARACTERISTIC CURVES

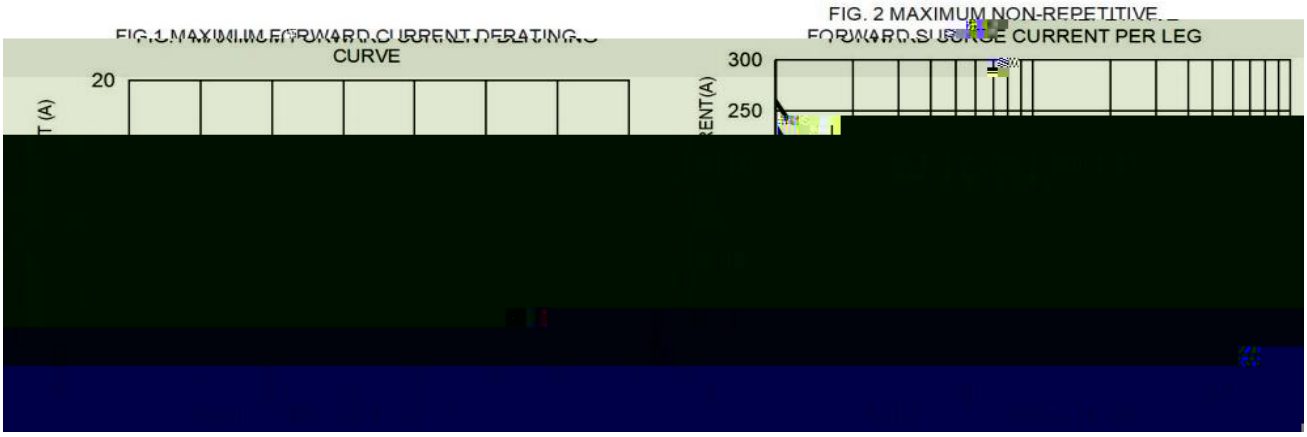


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

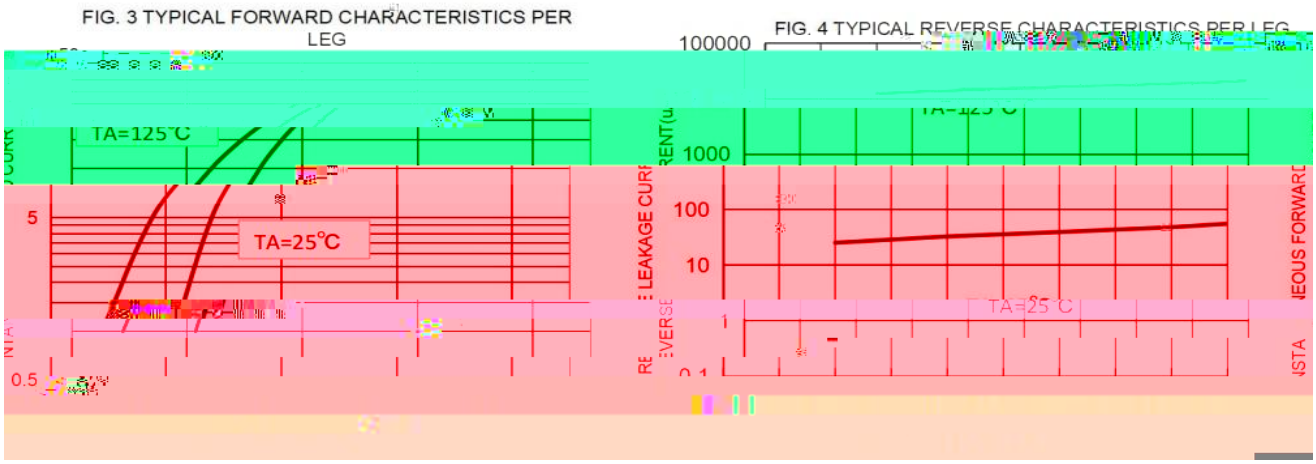


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG