

Power Schottky Rectifier - 60Amp 100Volt

Features

- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- High Junction Temperature Capability
- Low forward voltage, high current capability
- High surge capacity
- Low power loss, high efficiency
- ESD performance human body mode > 8 KV

Application

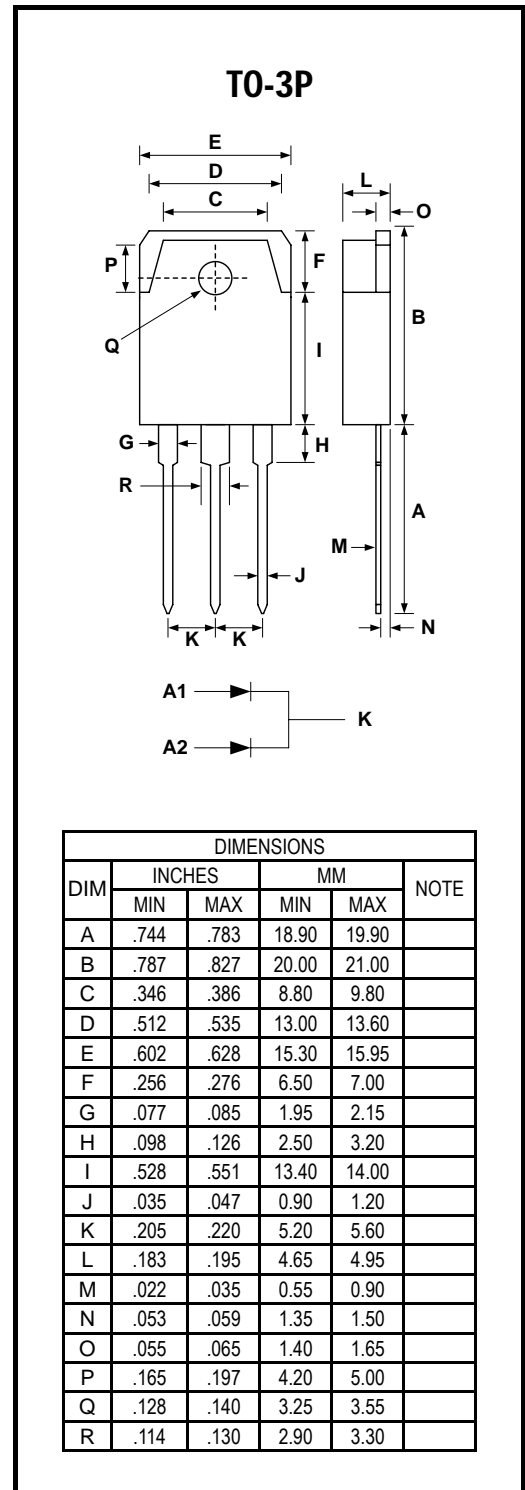
- AC/DC Switching Adaptor and other Switching Power Supply
- SMPS

Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
I _{F(AV)}	60	A	Average Forward Current
V _{RRM}	100	V	Repetitive Peak Reverse Voltage
I _{FSM}	500	A	Peak Forward Surge Current
V _{F(max)}	0.69	V	Forward Voltage Drop
T _j	-50 to +175	°C	Operating Temperature
T _{stg}	-50 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V _F	0.85V	T _c = 25°C
		0.69V	T _c = 125°C
Maximum Reverse Leakage Current	I _R	0.01mA	T _c = 25°C
		10mA	T _c = 125°C
Maximum Voltage Rate of Change	dv/dt	10,000 V/μs	Rated V _R
Typical Thermal Resistance, Junction to Case	R _{θ(j-c)}	1.1 °C/W	Per diode



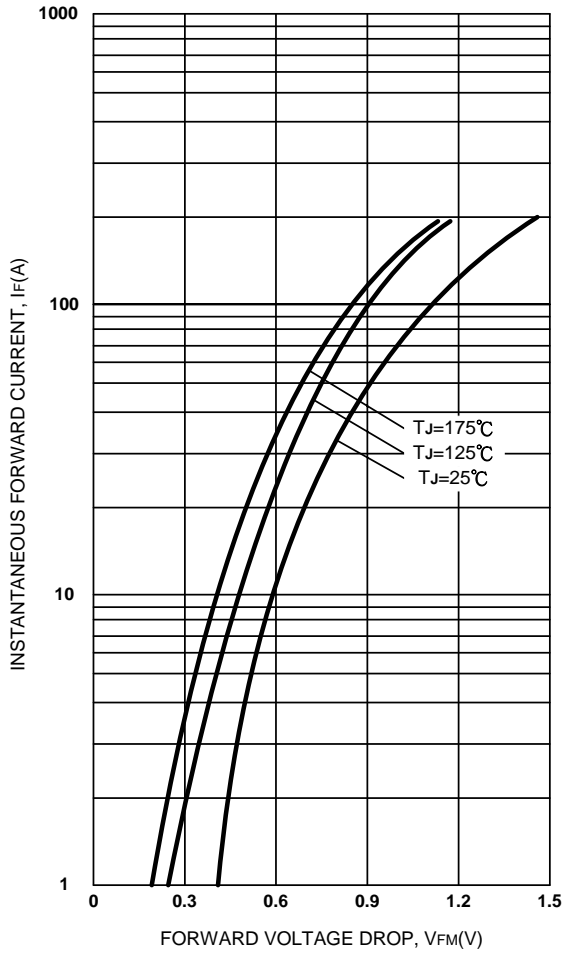


Figure 1. Max. Forward Voltage Drop Characteristics (PerLeg)

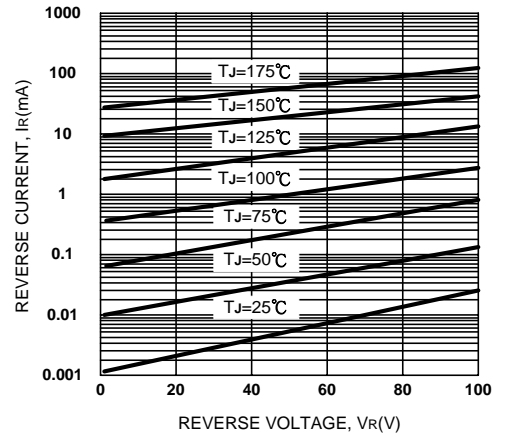


Figure 2. Typical Values Of Reverse Current Vs. Reverse Voltage (PerLeg)

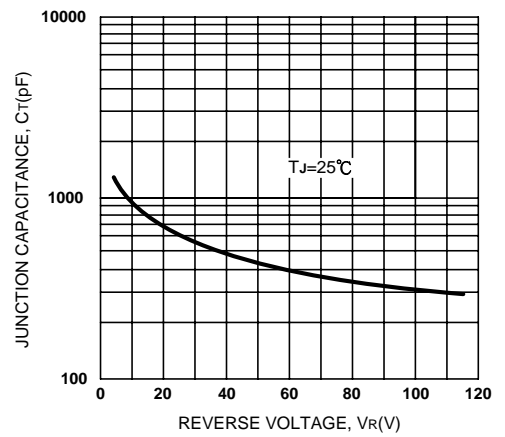


Figure 3. Typical Junction Capacitance Vs. Reverse Voltage (PerLeg)

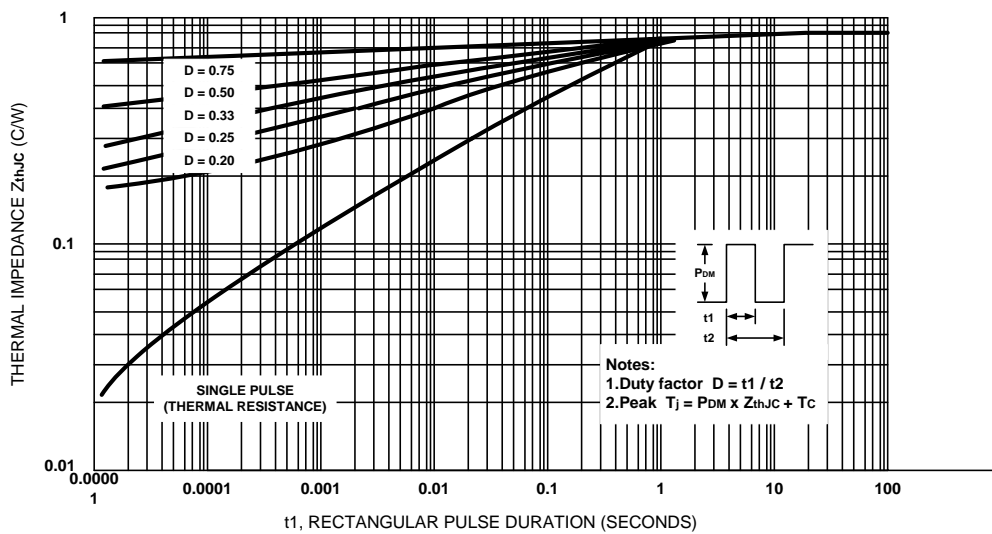


Figure 4. Max. Thermal Impedance Z_{thJC} Characteristics (PerLeg)

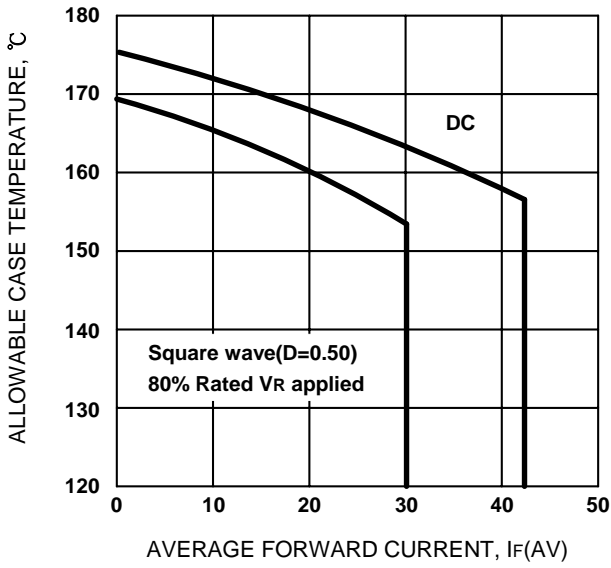


Figure 5. Max. Allowable Case Temperature Vs. Average Forward Current (PerLeg)

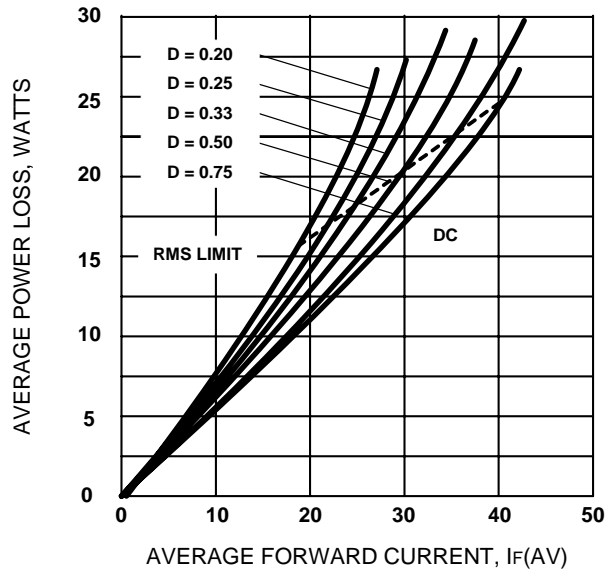


Figure 6. Forward Power Loss Characteristics (PerLeg)

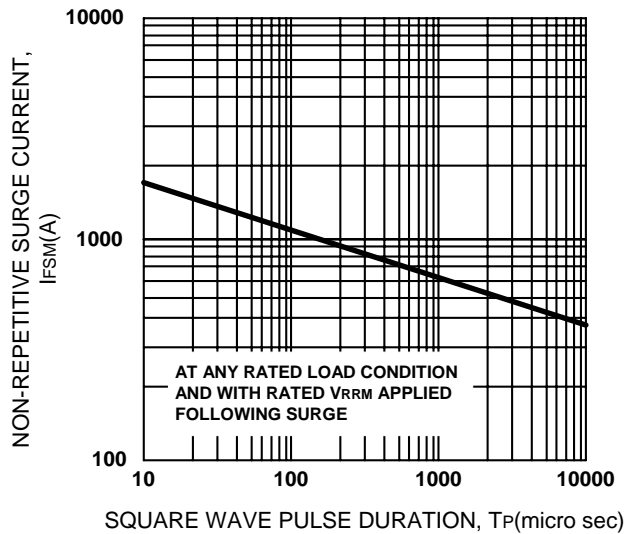


Figure 7. Max. Non-Repetitive Surge Current (PerLeg)