

Power Schottky Rectifier - 30Amp 150Volt

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 > 6 KV
- Halogen-Free

Application

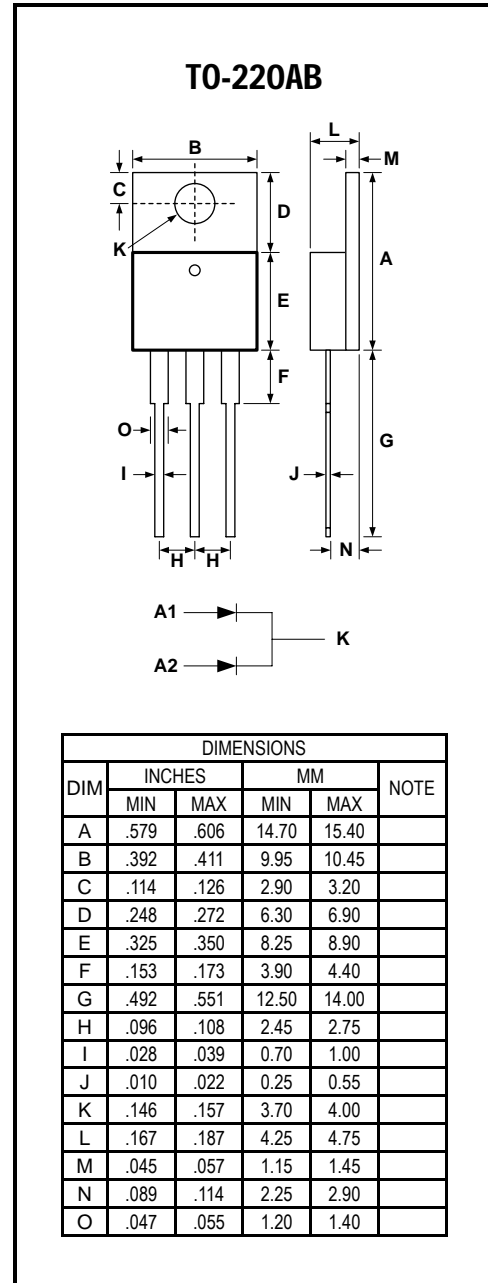
- AC/DC Switching Adaptor and TFT-LCD Power Supply
- SMPS

Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
IF(AV)	30	A	Average Forward Current
VRRM	150	V	Repetitive Peak Reverse Voltage
IFSM	350	A	Peak Forward Surge Current
VF(max)	0.66	V	Forward Voltage Drop
Tj	-50 to +150	°C	Operating Temperature
Tstg	-50 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	VF	0.85V	IF = 15A Tc = 25°C
		0.66V	Tc = 125°C
Maximum Reverse Leakage Current	IR	0.05mA 10mA	Tc = 25°C Tc = 125°C
Maximum Voltage Rate of Change	dv/dt	10,000 V/μs	Rated Vr
Typical Thermal Resistance, Junction to Case	Rθ(j-c)	2.2 °C/W	Per diode



Note: Pulse Test : 380μs pulse width, 2% duty cycle

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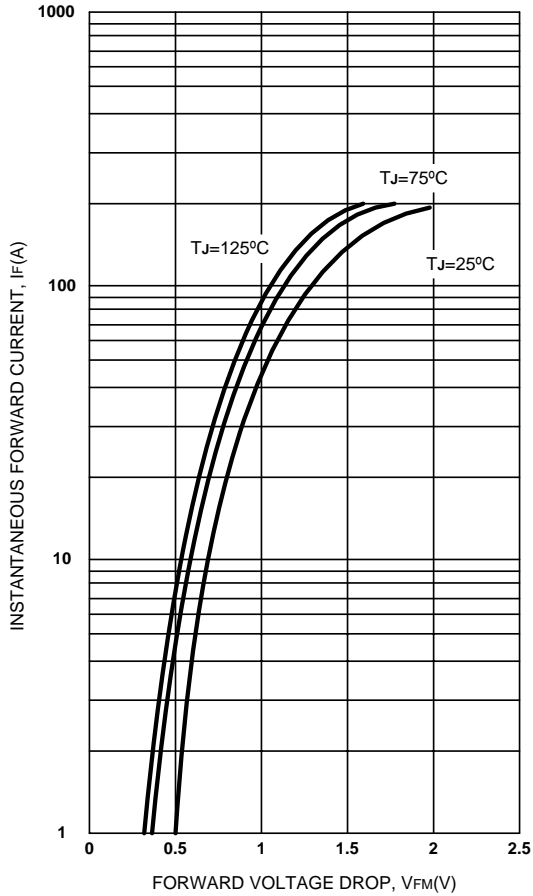


Figure 1. Max. Forward Voltage Drop Characteristics (PerLeg)

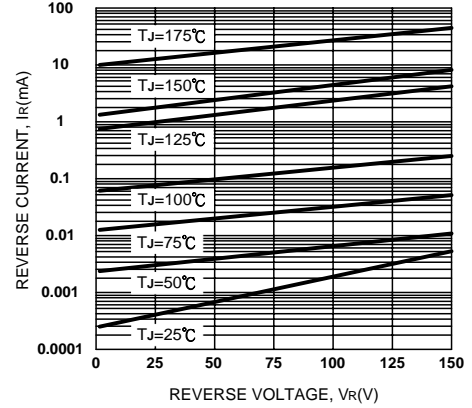


Figure 2. Typical Values Of Reverse Current Vs. Reverse Voltage (PerLeg)

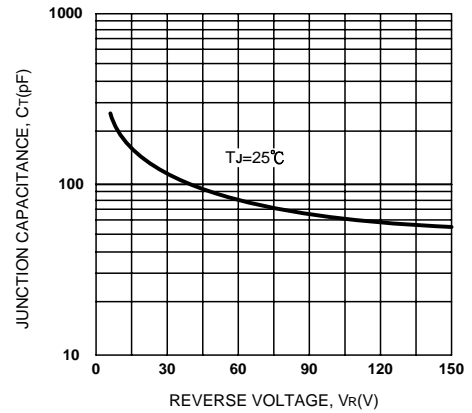


Figure 3. Typical Junction Capacitance Vs. Reverse Voltage (PerLeg)

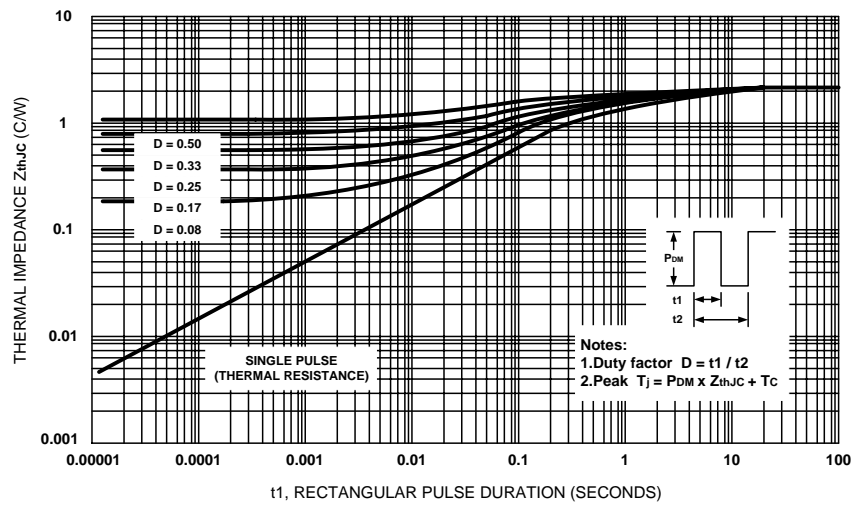


Figure 4. Max. Thermal Impedance Z_{thJC} Characteristics (PerLeg)

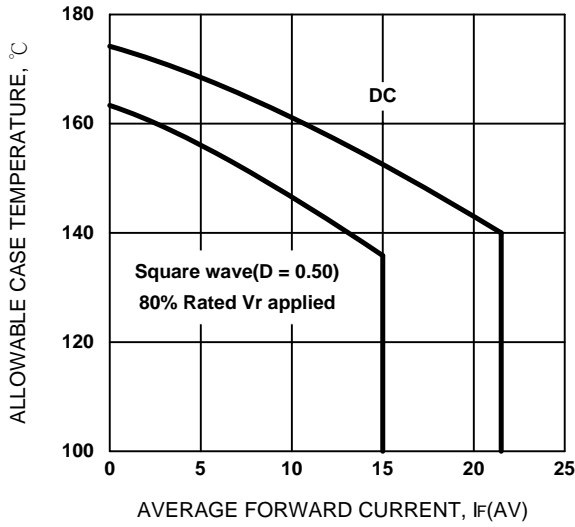


Figure 5. Max. Allowable Case Temperature Vs. Average Forward Current (PerLeg)

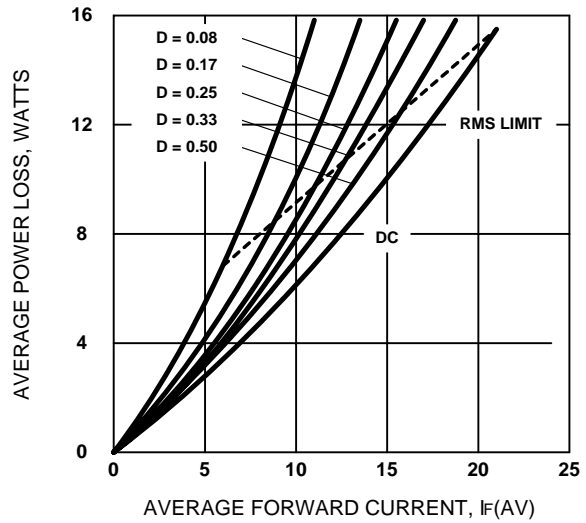


Figure 6. Forward PowerLoss Characteristics (PerLeg)

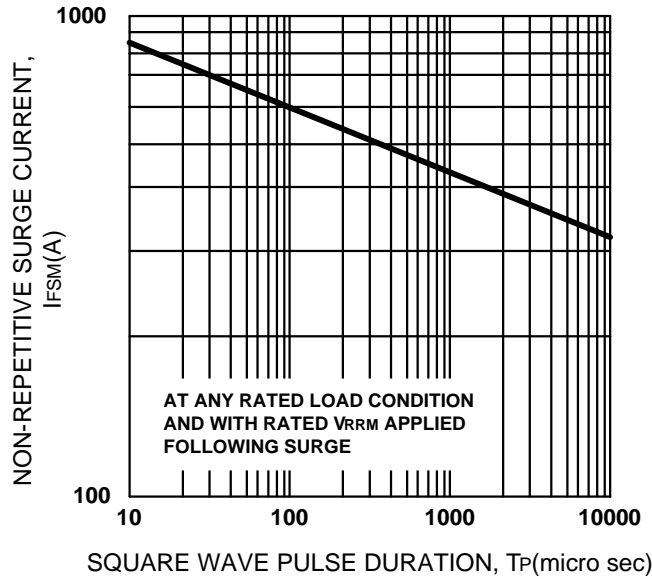


Figure 7. Max. Non-Repetitive Surge Current (PerLeg)