

Power Schottky Rectifier - 20Amp 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

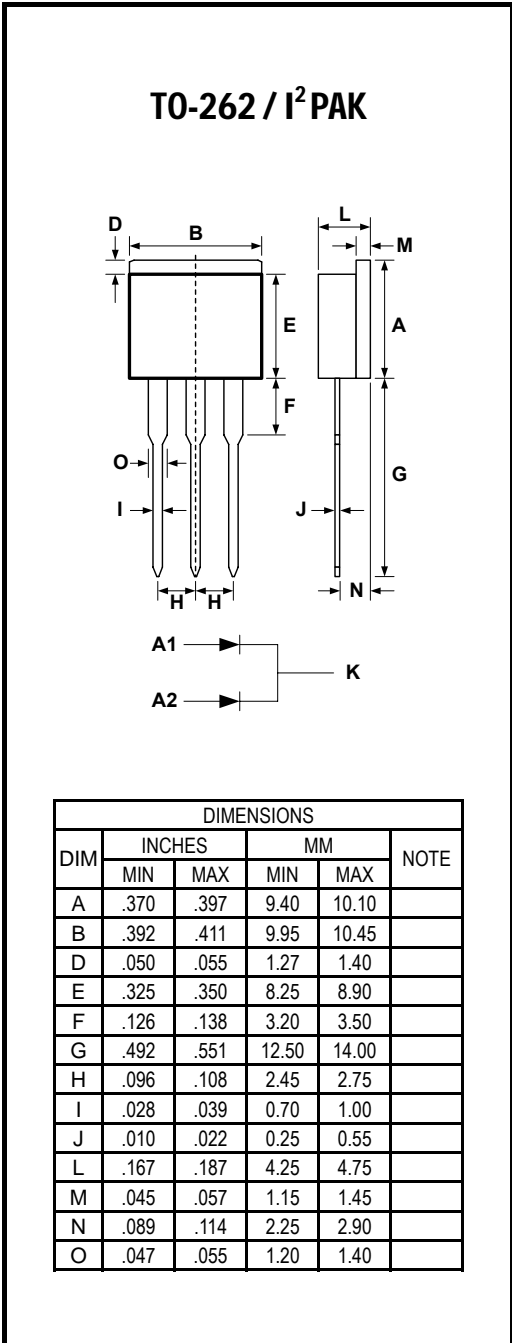
- AC/DC Switching Adaptor and other Switching Power Supply
- TFT-LCD and DVD Power Supply

Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
IF(AV)	20	A	Average Forward Current
VRRM	100	V	Repetitive Peak Reverse Voltage
IFSM	150	A	Peak Forward Surge Current
VF(max)	0.66	V	Forward Voltage Drop
Tj	-50 to +175	°C	Operating Temperature
Tstg	-50 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	VF	0.82V	Tc = 25°C
Forward Voltage		0.66V	Tc = 125°C
Maximum Reverse Leakage Current	IR	0.01mA	Tc = 25°C
Current		10mA	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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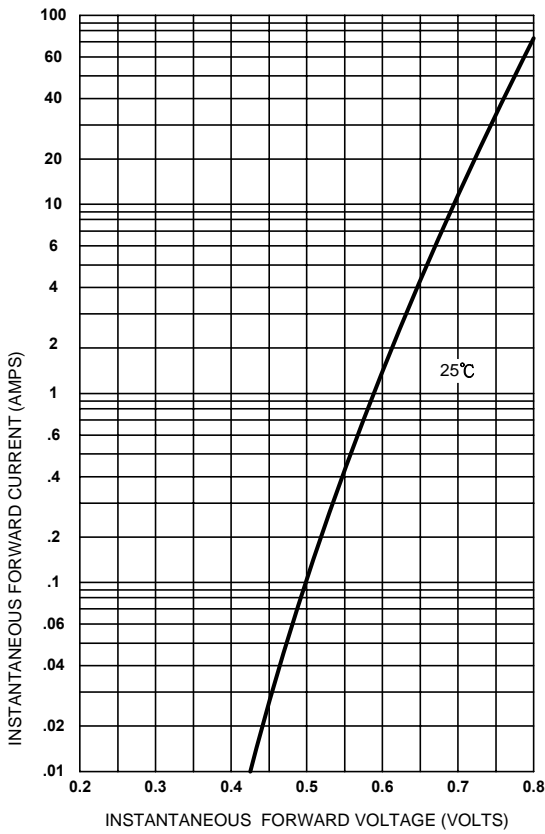


Figure 1. Typical Forward Characteristics

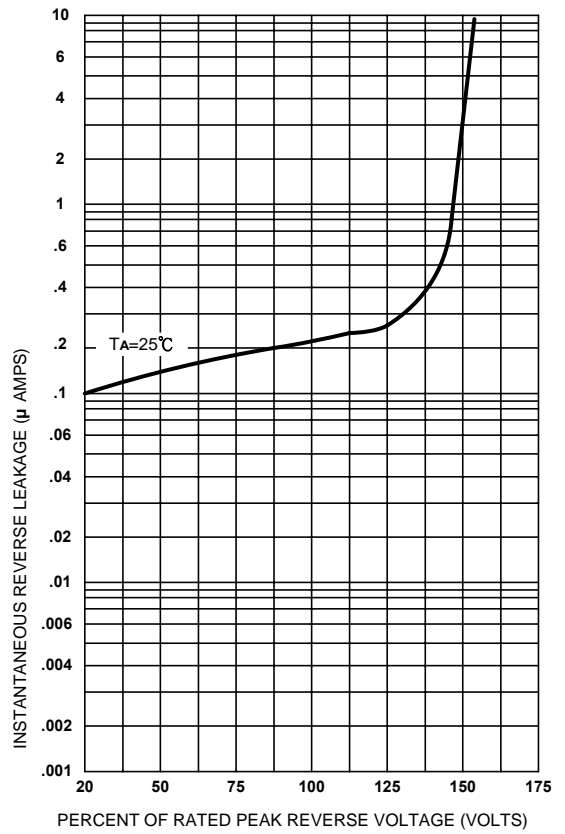


Figure 2. Typical Reverse Characteristics

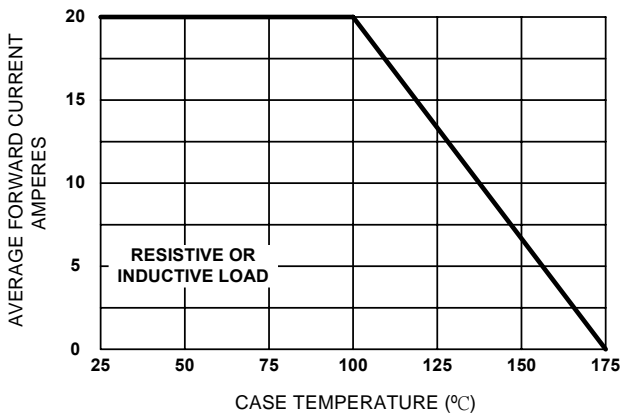


Figure 3. Forward Current Derating Curve

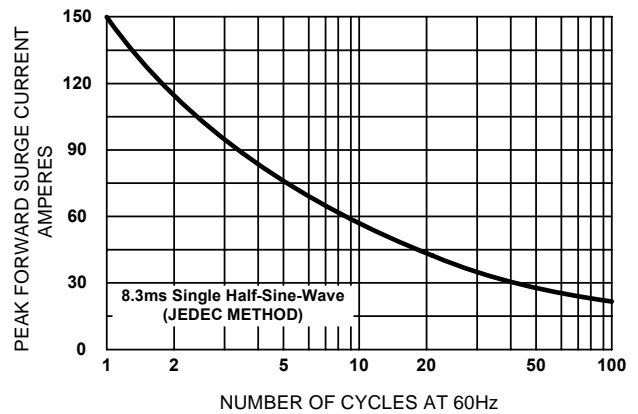


Figure 4. Maximum Non-repetitive Surge Current



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