

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
- Halogen-Free

Application

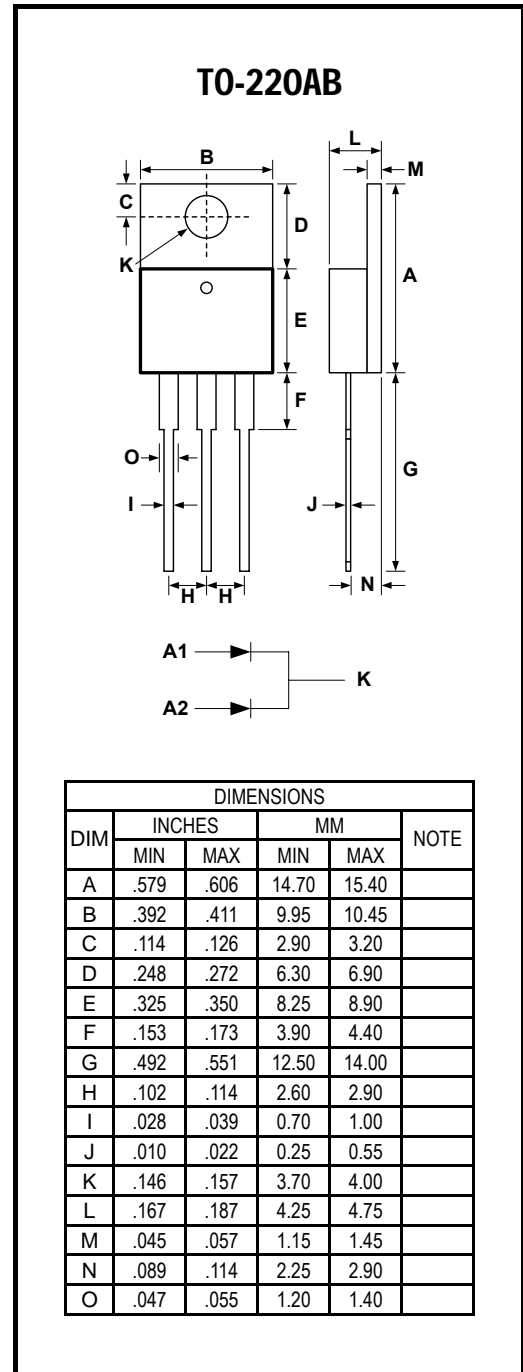
- AC/DC Switching Adaptor and other Switching Power Supply
- TFT-LCD and DVD Power Supply

Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
I _{F(AV)}	20	A	Average Forward Current
V _{RRM}	100	V	Repetitive Peak Reverse Voltage
I _{FSM}	150	A	Peak Forward Surge Current
V _{F(max)}	0.54	V	Forward Voltage Drop
T _j	-50 to +150	°C	Operating Temperature
T _{stg}	-50 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V _F	0.72V	T _c = 25°C
Forward Voltage		0.54V	T _c = 125°C
Maximum Reverse Leakage Current	I _R	0.05mA	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)}	2.2 °C/W	Per diode



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

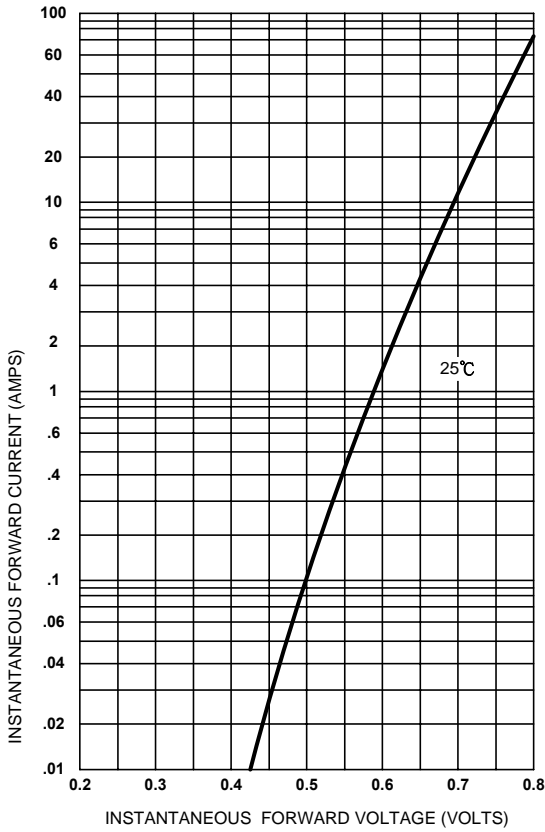


Figure 1. Typical Forward Characteristics

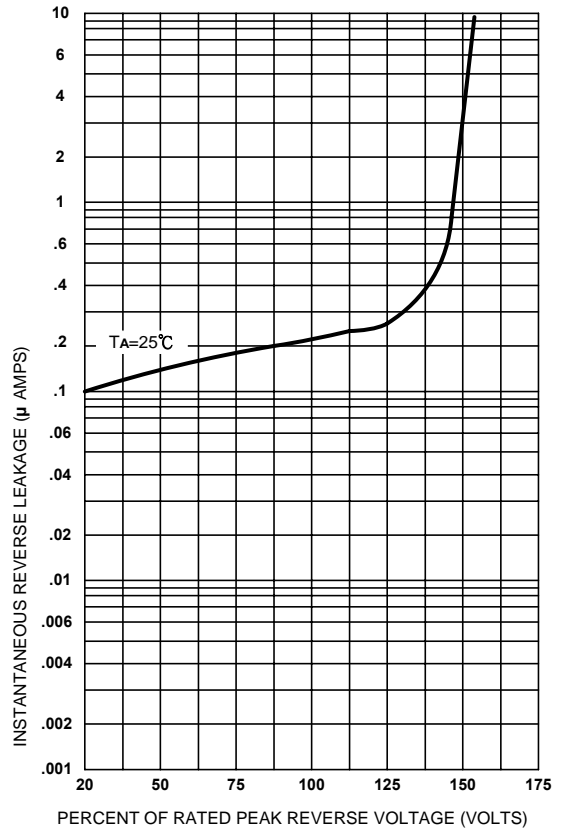


Figure 2. Typical Reverse Characteristics

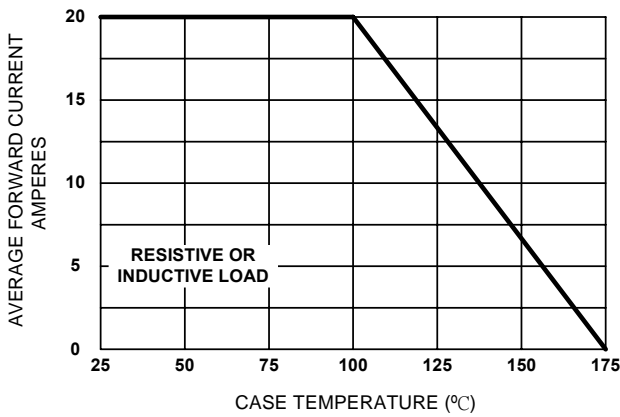


Figure 3. Forward Current Derating Curve

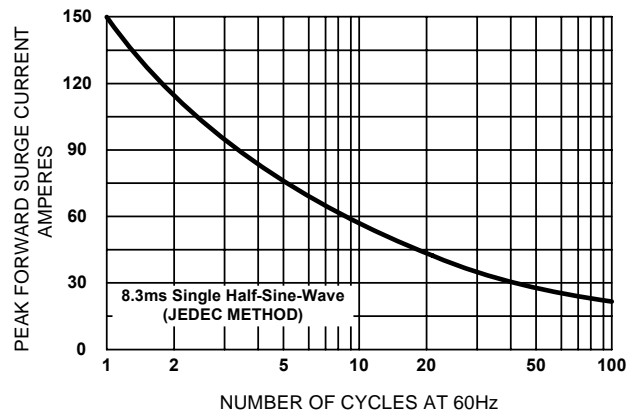


Figure 4. Maximum Non-repetitive Surge Current



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