

Power Schottky Rectifier - 10Amp 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

Application

-AC/DC Switching Adaptor and other Switching Power Supply

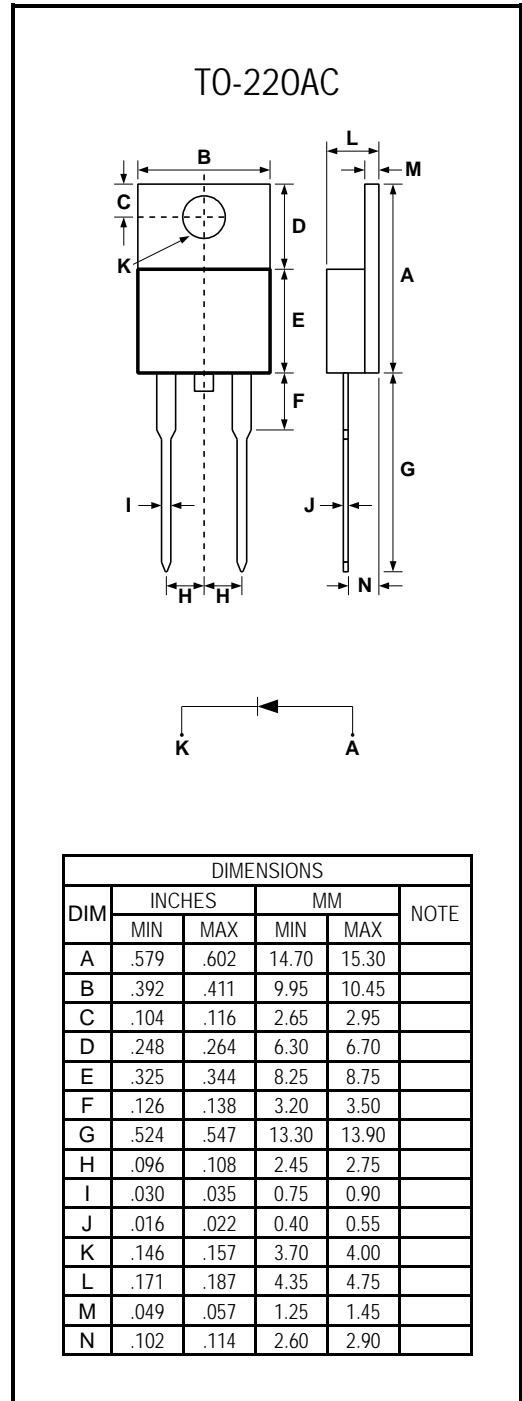
Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
I _{F(AV)}	10	A	At T _c =125°C
V _{RRM}	100	V	Maximum repetitive peak reverse voltage
I _{FSM}	150	A	8.3ms single half sine-wave single shot
V _{F(max)}	0.85	V	At I _F =10A, T _c =25°C
T _j	-50 to +175	°C	
T _{stg}	-50 to +150	°C	

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V _F	0.85V	T _c =25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	50μA 10mA	T _c =25°C T _c =125°C
Voltage Rate of Change	dv/dt	10,000 V/μs	Rated V _R
Typical Thermal Resistance, Junction to Case	R _{th(j-c)}	1.6 °C/W	

Note: (1)Pulse Test : 380μs pulse width, 2% duty cycle



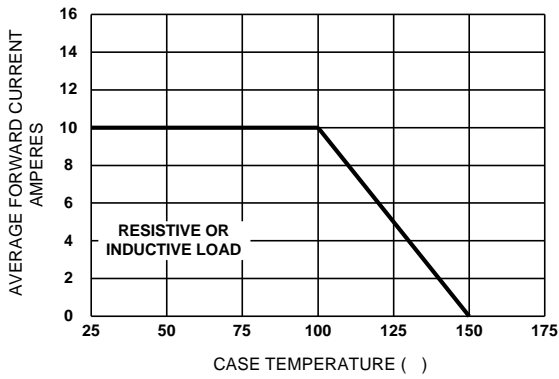


Figure 1. Forward Current Derating Curve

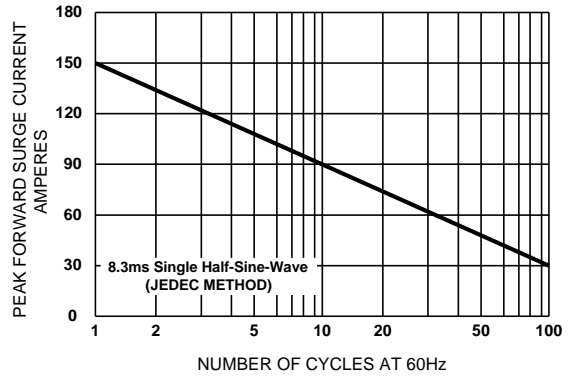


Figure 2. Maximum Non-repetitive Surge Current

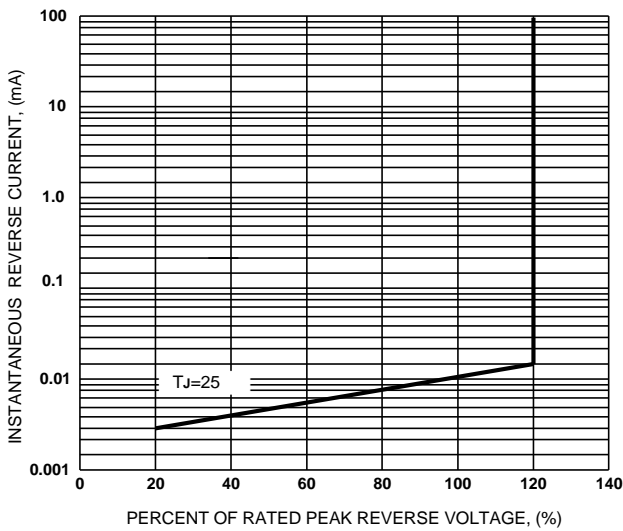


Figure 3. Typical Reverse Characteristics

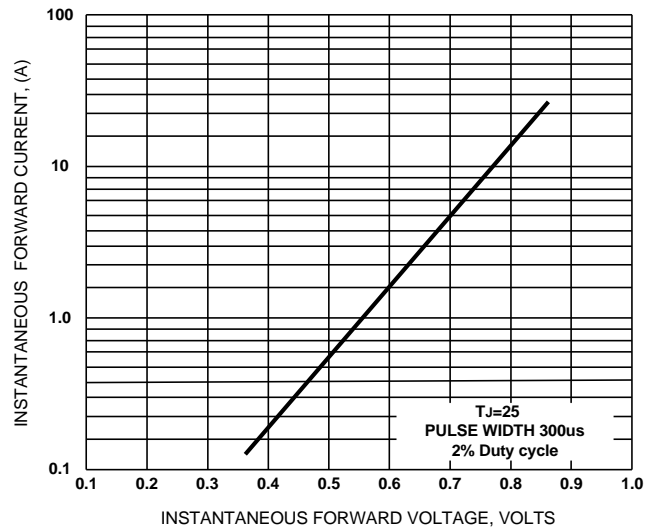


Figure 4. Typical Forward Characteristics

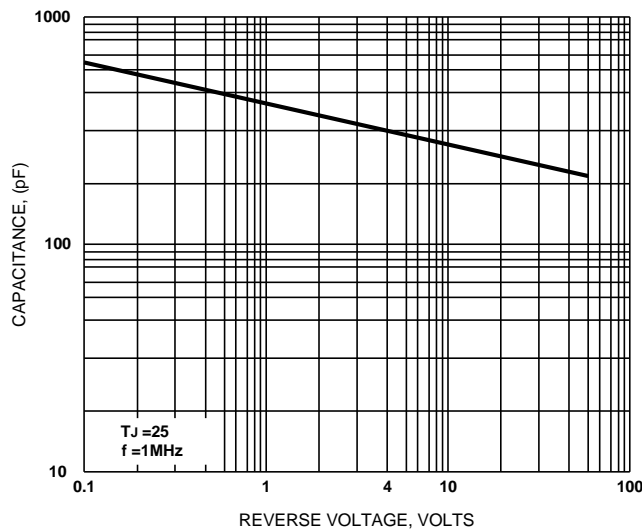


Figure 5. Typical Junction Capacitance