

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
- Digital Camera Power Supply

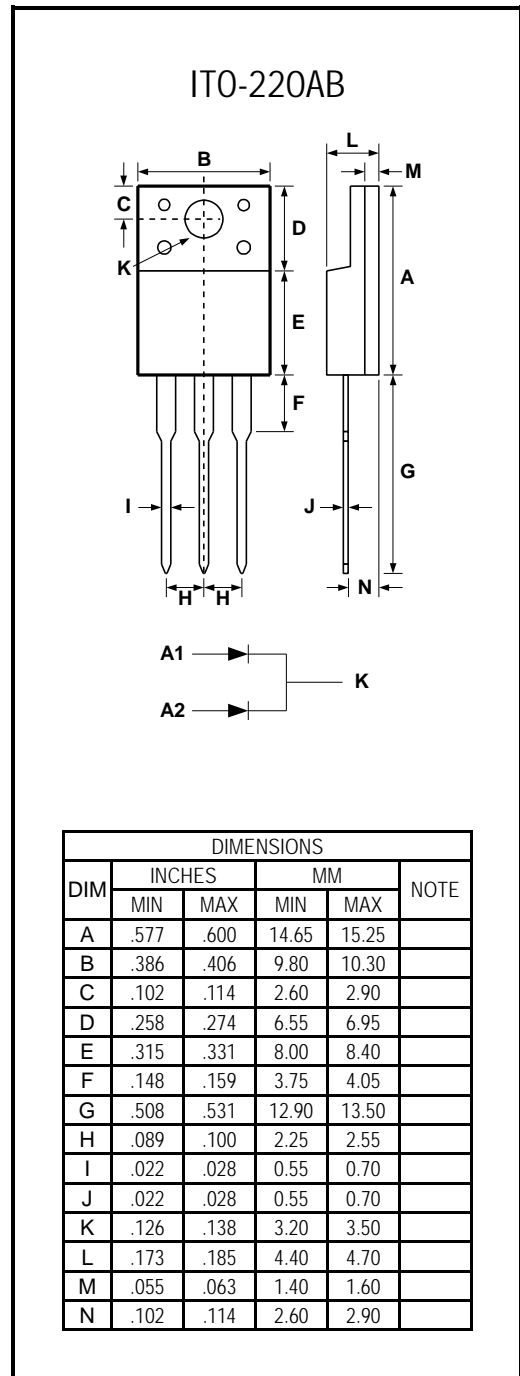
Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
I <sub>F(AV)</sub>	10	A	At T <sub>c</sub> =125°C
V <sub>RRM</sub>	100	V	Maximum repetitive peak reverse voltage
I <sub>FSM</sub>	120	A	8.3ms single half sine-wave single shot
V <sub>F(max)</sub>	0.85	V	At I <sub>F</sub> =5A, T <sub>c</sub> =25°C
T <sub>j</sub>	-50 to +175	°C	
T <sub>stg</sub>	-50 to +150	°C	

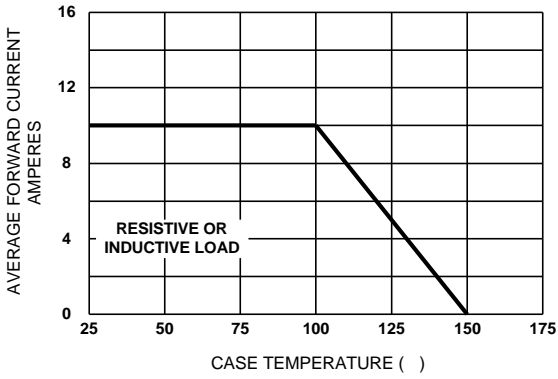
Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.85V	T <sub>c</sub> =25°C
Forward Voltage		0.75V	T <sub>c</sub> =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	50μA	T <sub>c</sub> =25°C
		10mA	T <sub>c</sub> =125°C
Voltage Rate of Change	dv/dt	10,000 V/μs	Rated V <sub>R</sub>
Typical Thermal Resistance, Junction to Case	R <sub>th(j-c)</sub>	4.5 °C/W	Per diode

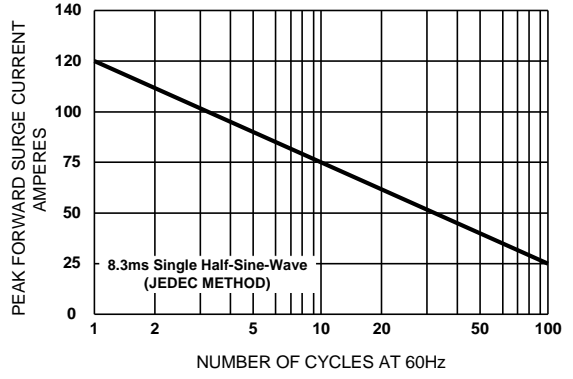
Note: (1)Pulse Test : 380μs pulse width, 2% duty cycle



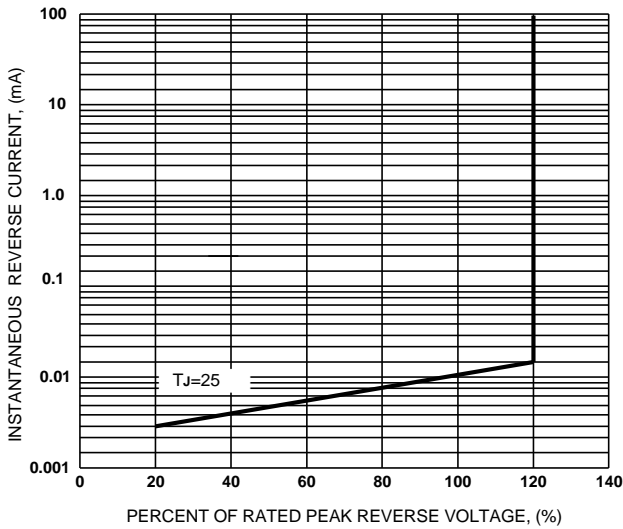
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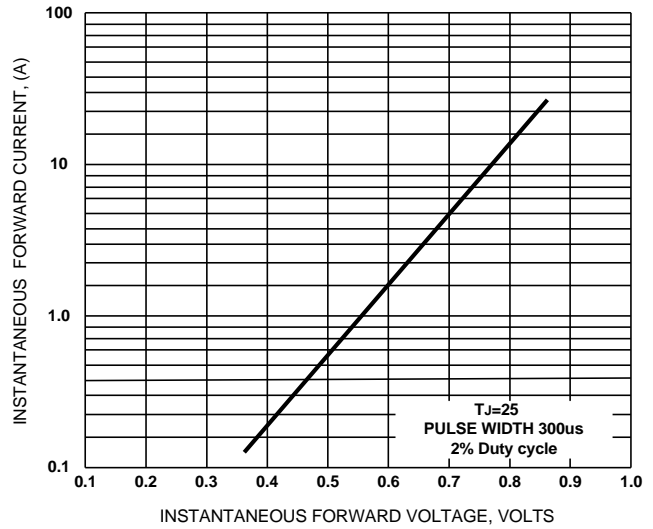
**Figure 1. Forward Current Derating Curve**



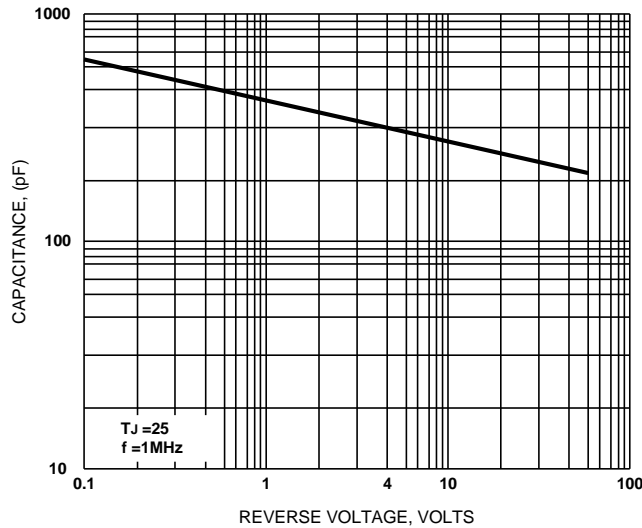
**Figure 2. Maximum Non-repetitive Surge Current**



**Figure 3. Typical Reverse Characteristics**



**Figure 4. Typical Forward Characteristics**



**Figure 5. Typical Junction Capacitance**