

## 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

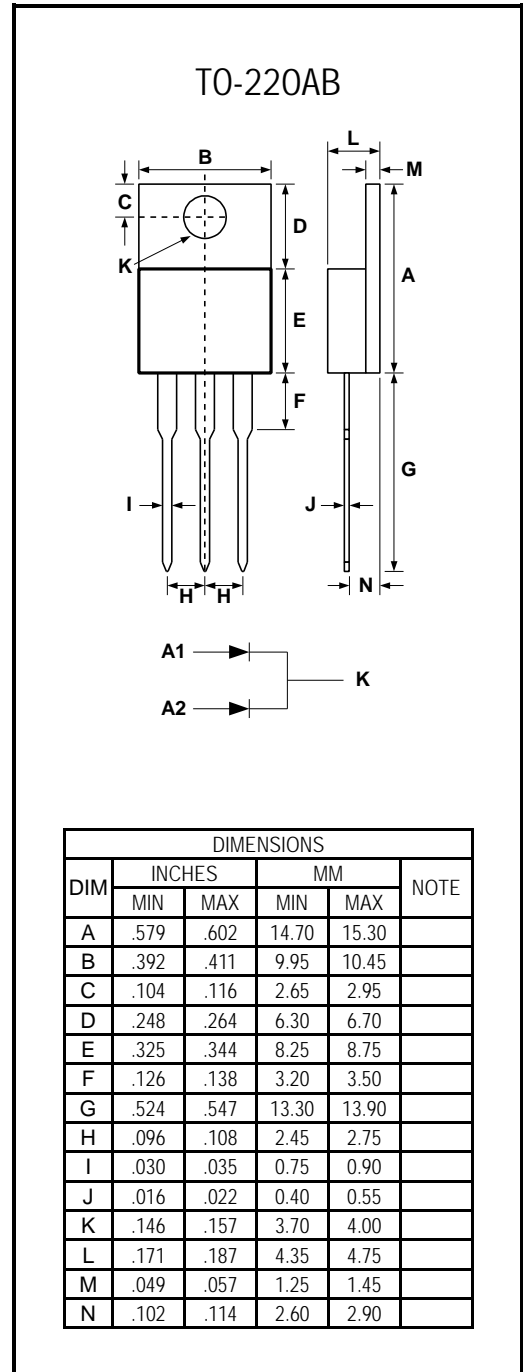
### Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
$I_F(AV)$	10	A	At $T_c=125^\circ C$
$V_{RRM}$	100	V	Maximum repetitive peak reverse voltage
$I_{FSM}$	120	A	8.3ms single half sine-wave single shot
$V_F(max)$	0.85	V	At $I_F=5A, T_c=25^\circ C$
$T_j$	-50 to +175	$^\circ C$	
$T_{stg}$	-50 to +150	$^\circ C$	

### Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	$V_F$	0.85V	$T_c=25^\circ C$
Forward Voltage		0.75V	$T_c=125^\circ C$
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	50 $\mu A$ 10mA	$T_c=25^\circ C$ $T_c=125^\circ C$
Voltage Rate of Change	$dv/dt$	10,000 V/ $\mu s$	Rated $V_R$
Typical Thermal Resistance, Junction to Case	$R_{th(j-c)}$	2.2 $^\circ C/W$	Per diode

Note: (1)Pulse Test : 380 $\mu s$  pulse width, 2% duty cycle



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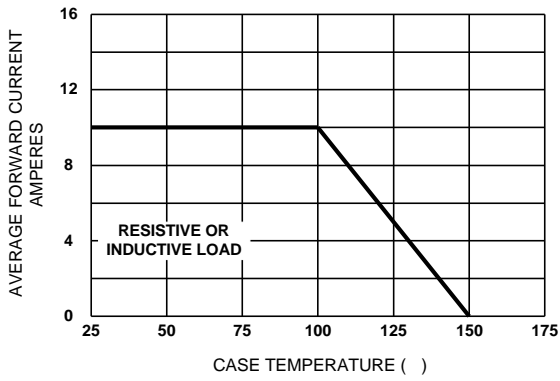


Figure 1. Forward Current Derating Curve

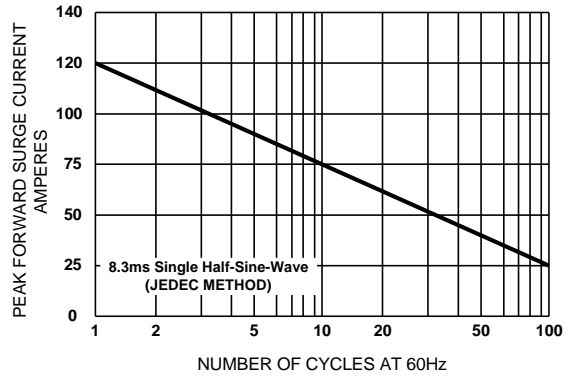


Figure 2. Maximum Non-repetitive Surge Current

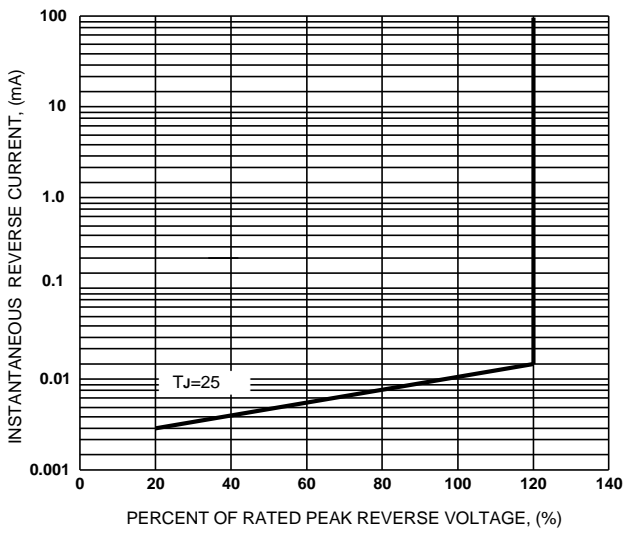


Figure 3. Typical Reverse Characteristics

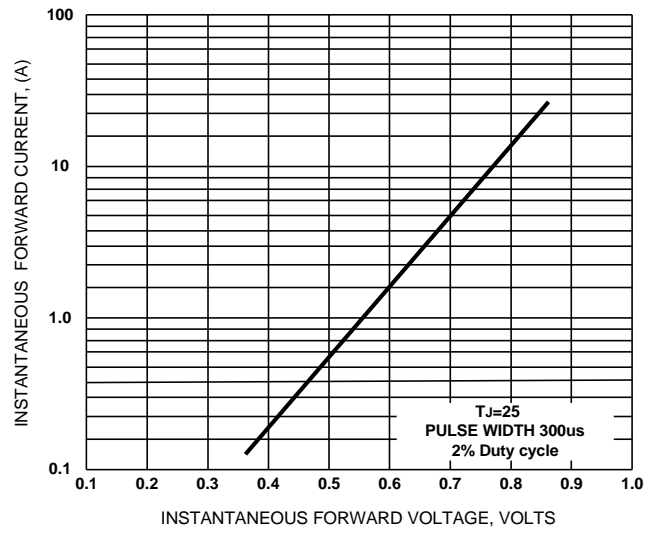


Figure 4. Typical Forward Characteristics

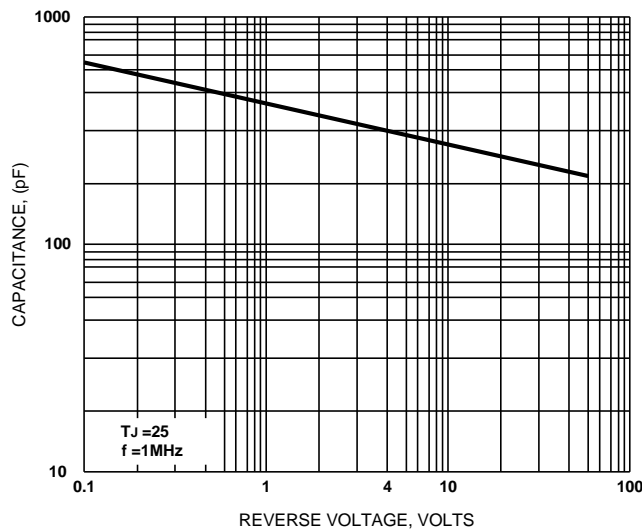


Figure 5. Typical Junction Capacitance