

## 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

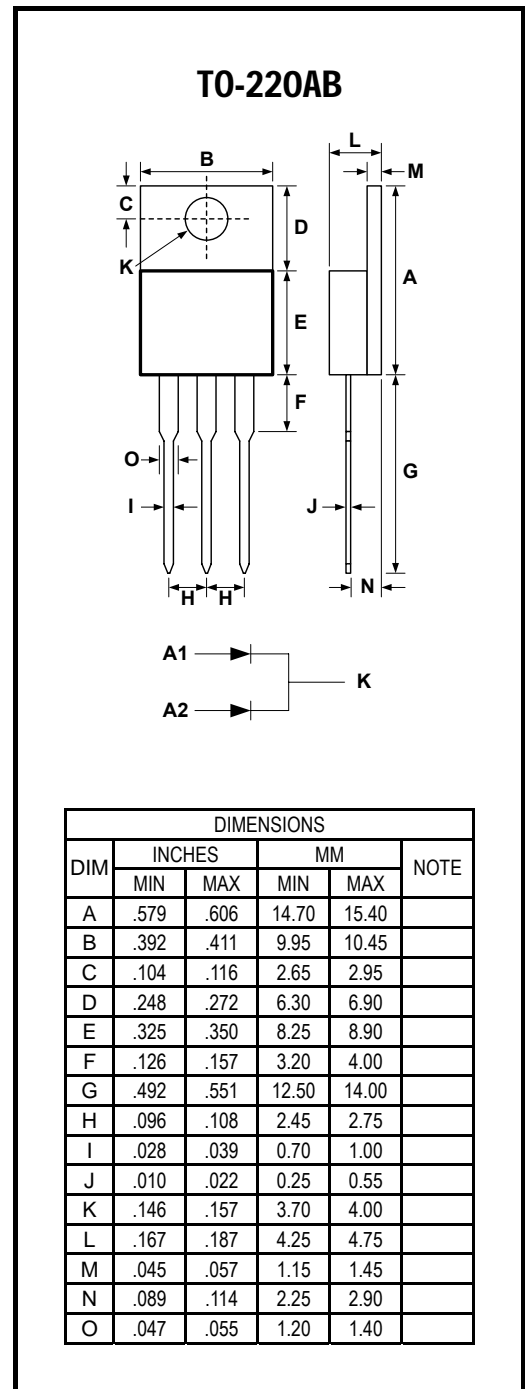
### Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
$I_F(AV)$	20	A	Average Forward Current
$V_{RRM}$	100	V	Repetitive Peak Reverse Voltage
$I_{FSM}$	150	A	Peak Forward Surge Current
$V_F(max)$	0.61	V	Forward Voltage Drop
$T_j$	-50 to +175	°C	Operating Temperature
$T_{stg}$	-50 to +150	°C	Storage Temperature

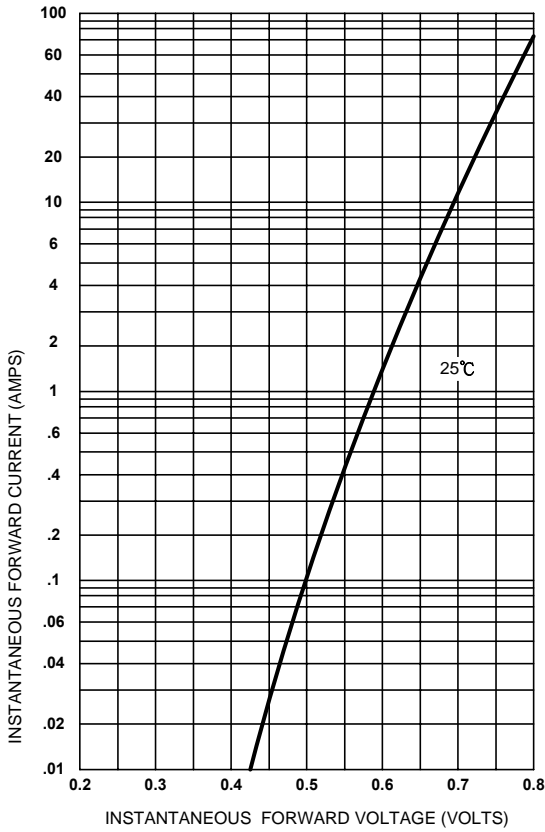
### Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	$V_F$	0.77V	$T_c = 25^\circ C$
Forward Voltage		0.61V	$T_c = 125^\circ C$
Maximum Reverse Leakage Current	$I_R$	0.01mA	$T_c = 25^\circ C$
Current		10mA	$T_c = 125^\circ C$
Maximum Voltage Rate of Change	$dv/dt$	10,000 V/ $\mu s$	Rated $V_R$
Typical Thermal Resistance, Junction to Case	$R_{\theta(j-c)}$	2.2 °C/W	Per diode

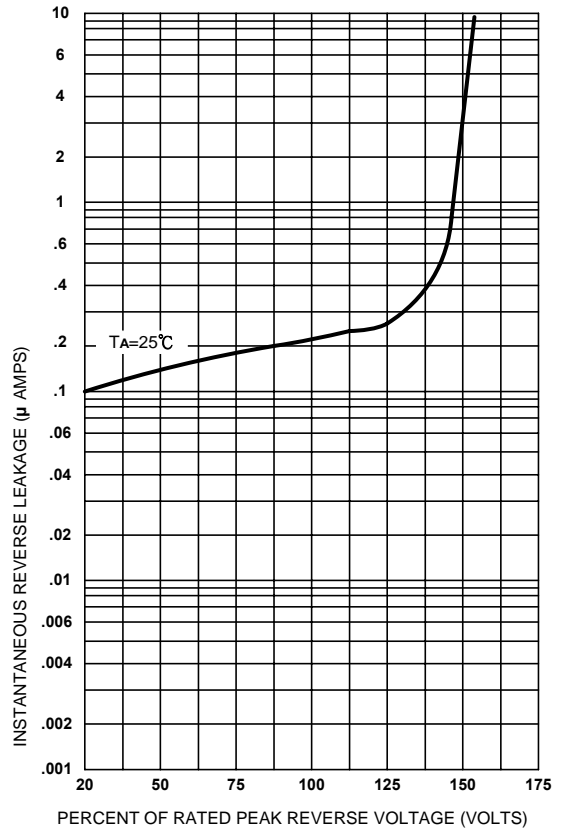
Note: Pulse Test : 380 $\mu s$  pulse width, 2% duty cycle



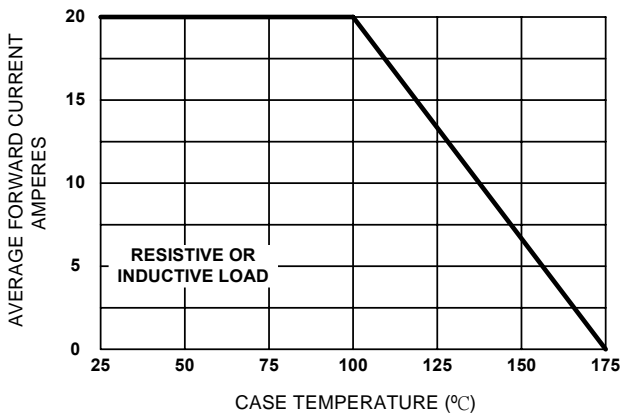
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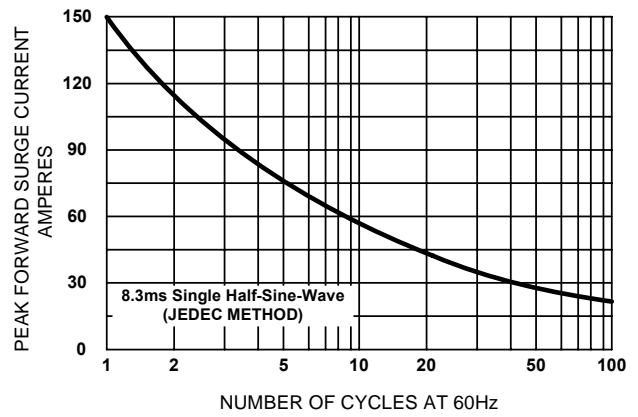
**Figure 1. Typical Forward Characteristics**



**Figure 2. Typical Reverse Characteristics**



**Figure 3. Forward Current Derating Curve**



**Figure 4. Maximum Non-repetitive Surge Current**



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