

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

Application

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

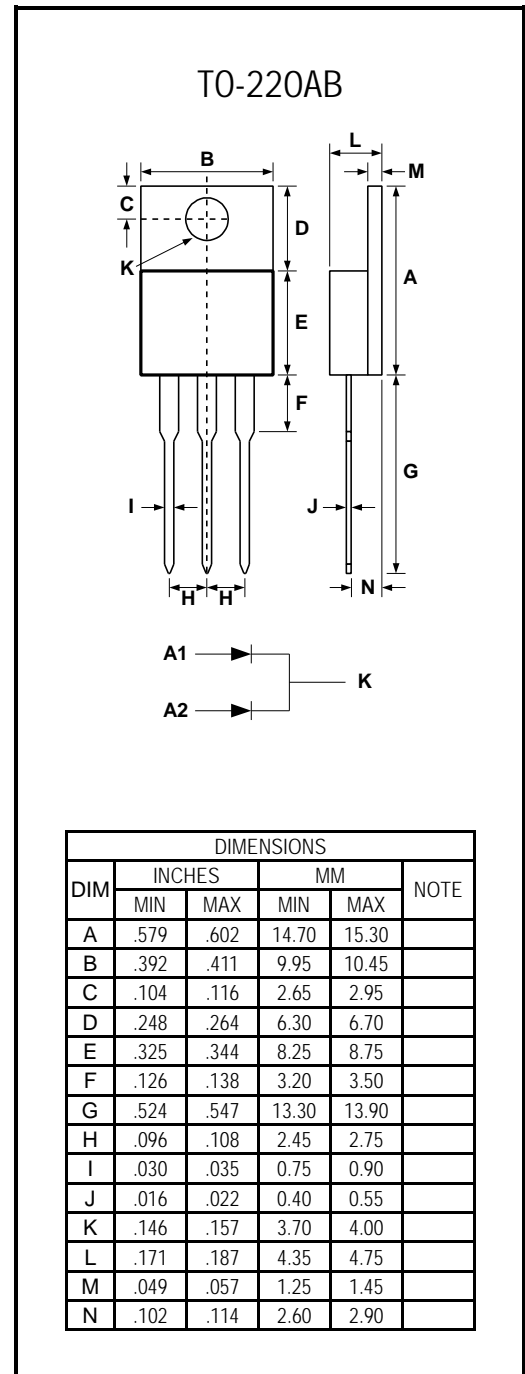
Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
$I_F(AV)$	20	A	At $T_c=125^\circ C$
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 $I_F=10A, T_c=25^\circ C$
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 μA	$T_c=25^\circ C$
		10mA	$T_c=125^\circ C$
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 $^\circ C/W$	Per diode

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



April 2004

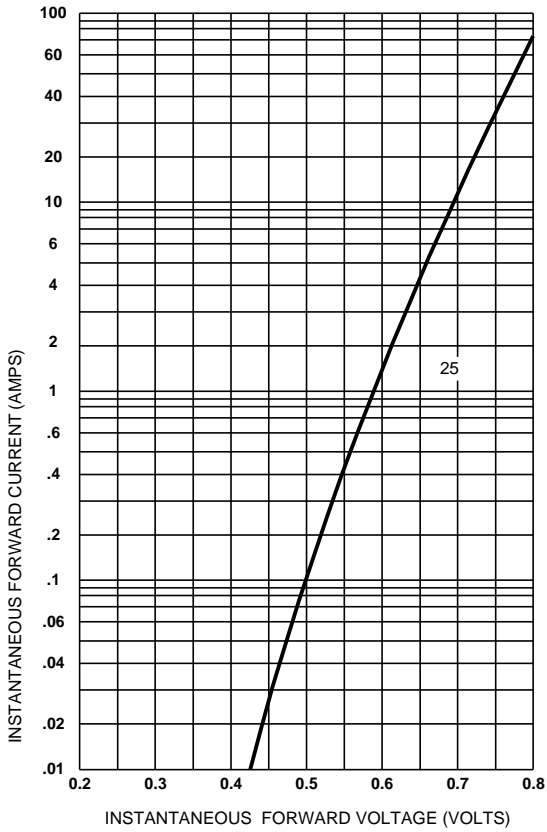


Figure 1. Typical Forward Characteristics

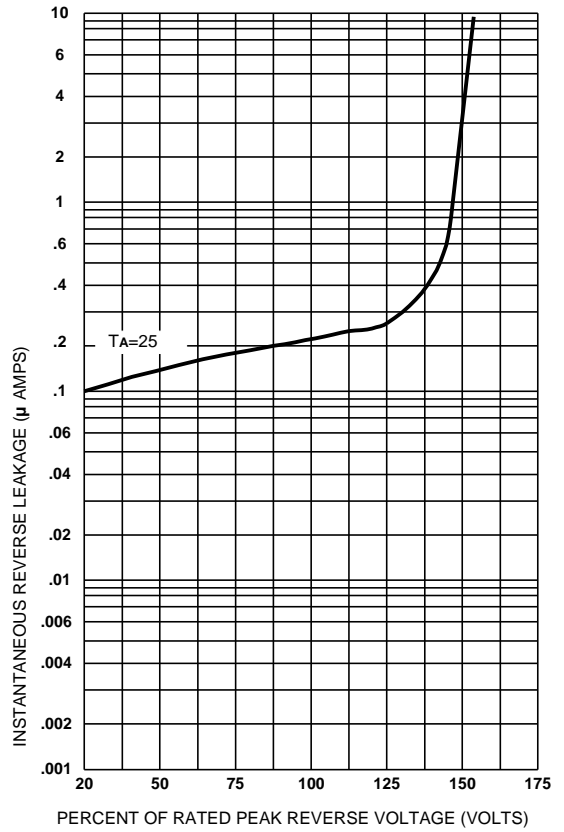


Figure 2. Typical Reverse Characteristics

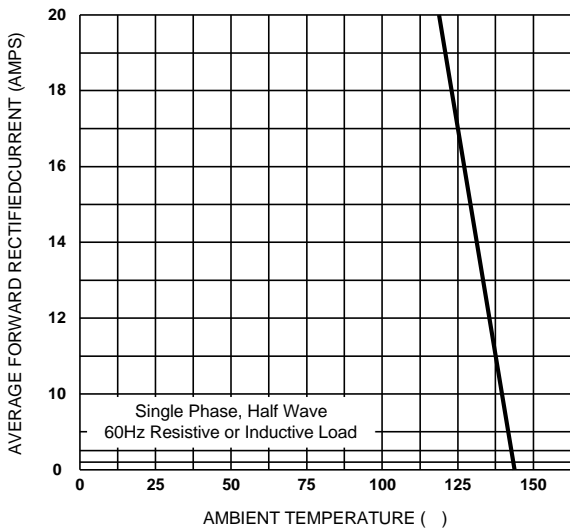


Figure 3. Forward Derating Curve

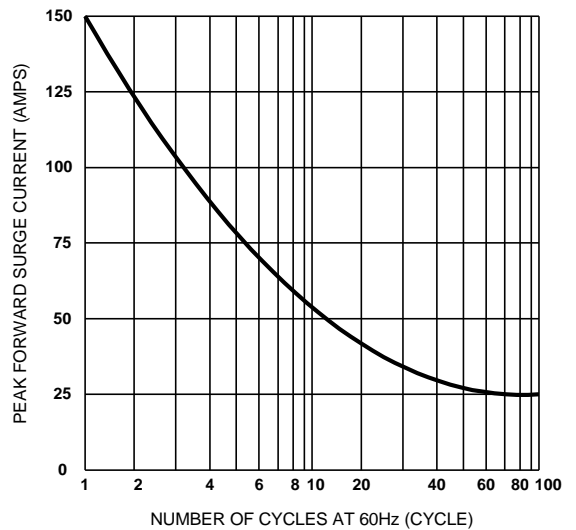


Figure 4. Peak Forward Surge Current