

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

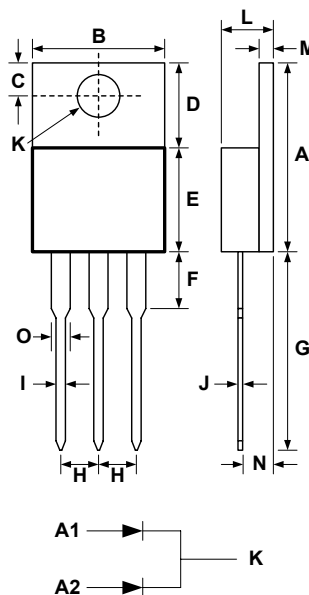
Symbol	Ratings	Unit	Conditions
$I_F(AV)$	20	A	Average Forward Current
V_{RRM}	100	V	Repetitive Peak Reverse Voltage
I_{FSM}	150	A	Peak Forward Surge Current
$V_F(max)$	0.61	V	Forward Voltage Drop
T_j	-50 to +175	°C	Operating Temperature
T_{stg}	-50 to +150	°C	Storage Temperature

Electrical characteristics

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

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

TO-220AB



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.579	.606	14.70	15.40	
B	.392	.411	9.95	10.45	
C	.104	.116	2.65	2.95	
D	.248	.272	6.30	6.90	
E	.325	.350	8.25	8.90	
F	.126	.157	3.20	4.00	
G	.492	.551	12.50	14.00	
H	.096	.108	2.45	2.75	
I	.028	.039	0.70	1.00	
J	.010	.022	0.25	0.55	
K	.146	.157	3.70	4.00	
L	.167	.187	4.25	4.75	
M	.045	.057	1.15	1.45	
N	.089	.114	2.25	2.90	
O	.047	.055	1.20	1.40	

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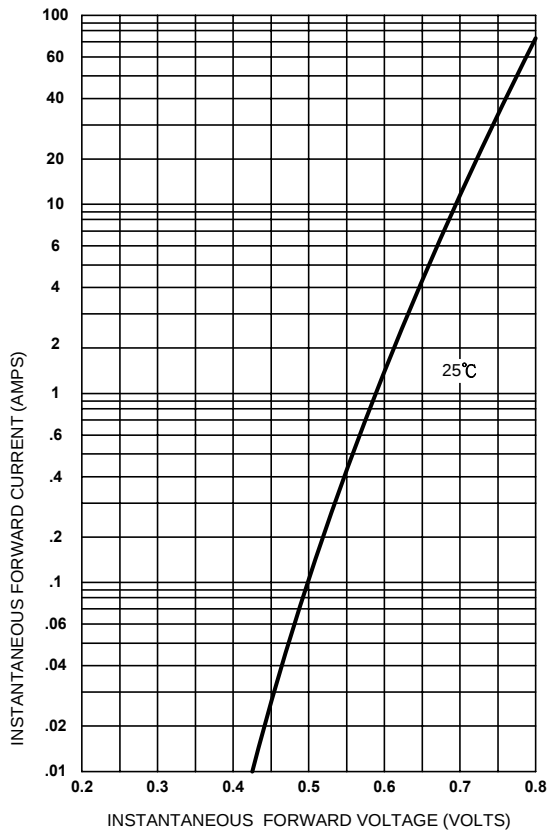


Figure 1. Typical Forward Characteristics

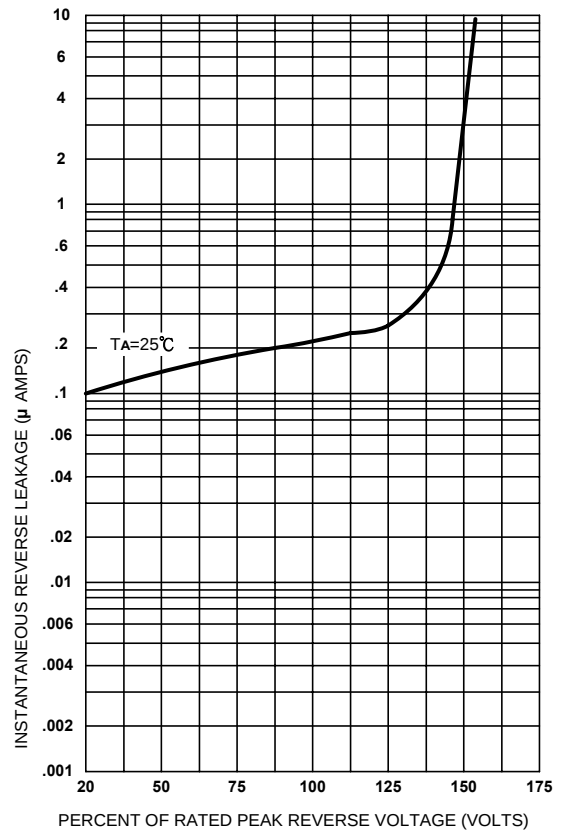


Figure 2. Typical Reverse Characteristics

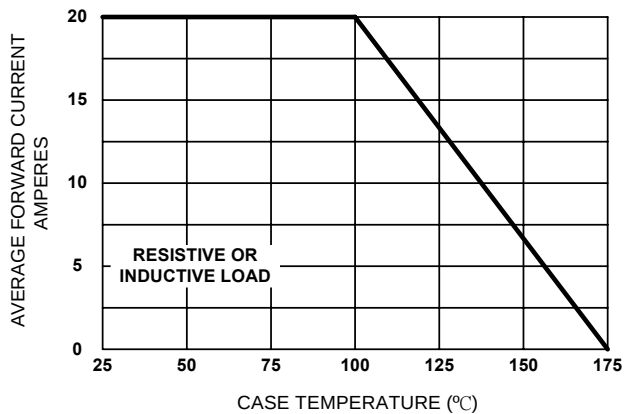


Figure 3. Forward Current Derating Curve

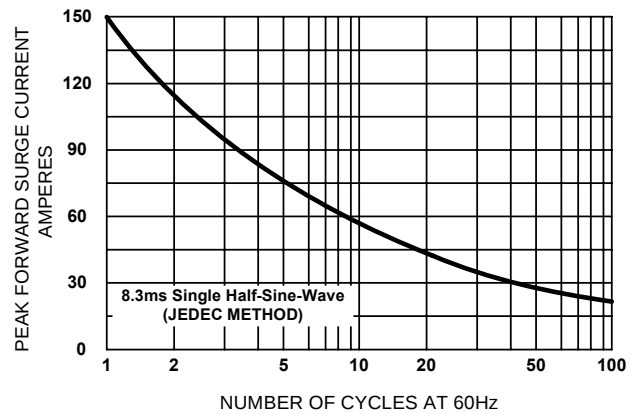


Figure 4. Maximum Non-repetitive Surge Current



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