

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
- Halogen-Free

Application

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

Absolute maximum ratings

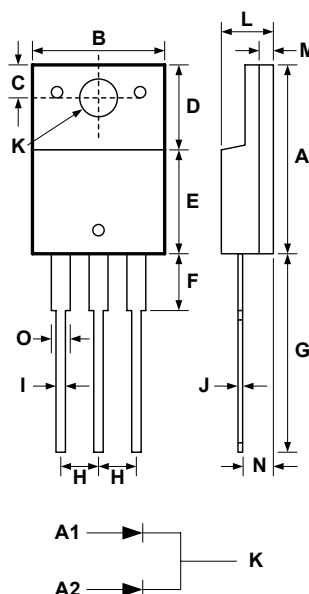
Symbol	Ratings	Unit	Conditions
$I_F(AV)$	20	A	Average Forward Current
V_{RRM}	100	V	Repetitive Peak Reverse Voltage
I_{FSM}	150	A	Peak Forward Surge Current
$V_F(max)$	0.54	V	Forward Voltage Drop
T_j	-50 to +150	°C	Operating Temperature
T_{stg}	-50 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V_F	0.72V 0.54V	$T_c = 25^\circ C$ $T_c = 125^\circ C$
Maximum Reverse Leakage Current	I_R	0.05mA 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	$R_{\theta(j-c)}$	2.4 °C/W	Per diode

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

ITO-220AB



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.577	.600	14.65	15.25	
B	.386	.406	9.80	10.30	
C	.106	.122	2.70	3.10	
D	.258	.274	6.55	6.95	
E	.315	.331	8.00	8.40	
F	.110	.161	2.80	4.10	
G	.508	.551	12.90	14.00	
H	.089	.106	2.25	2.70	
I	.020	.028	0.50	0.70	
J	.020	.028	0.50	0.70	
K	.120	.138	3.05	3.50	
L	.169	.185	4.30	4.70	
M	.039	.051	1.00	1.30	
N	.079	.112	2.00	2.85	
O	.043	.055	1.10	1.40	

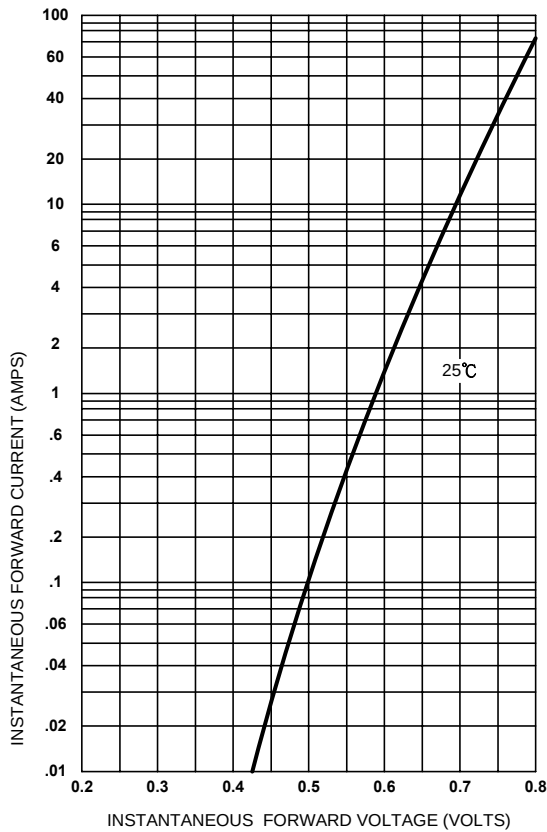


Figure 1. Typical Forward Characteristics

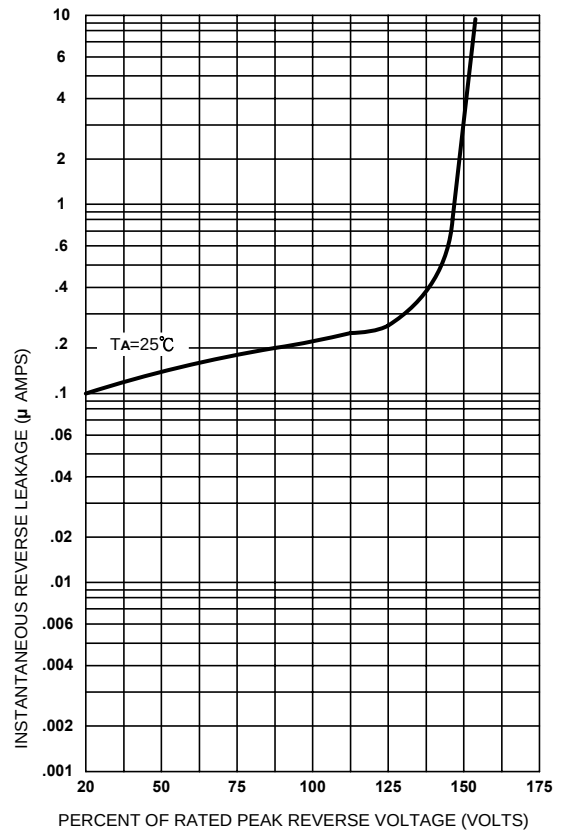


Figure 2. Typical Reverse Characteristics

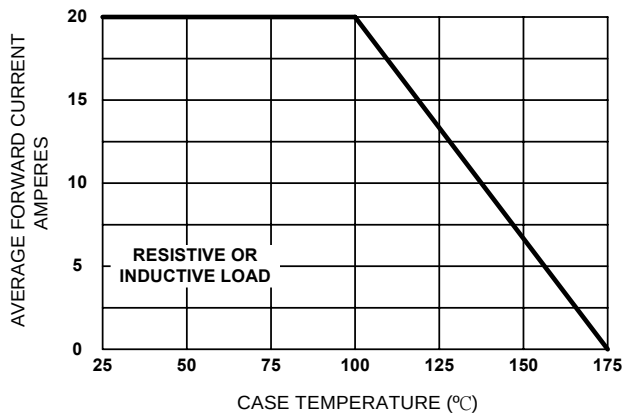


Figure 3. Forward Current Derating Curve

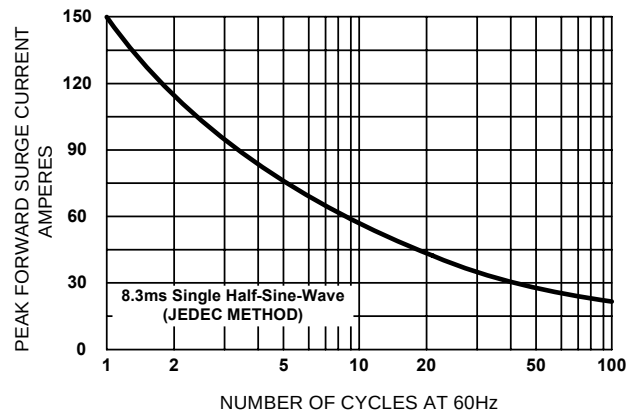


Figure 4. Maximum Non-repetitive Surge Current



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