

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
- ESD performance human body mode > 8 KV
- Halogen-Free

Application

- AC/DC Switching Adaptor and other Switching Power Supply

Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
IF(AV)	10	A	Average Forward Current
VRRM	100	V	Repetitive Peak Reverse Voltage
IFSM	120	A	Peak Forward Surge Current
VF(max)	0.54	V	Forward Voltage Drop
Tj	-50 to +150	°C	Operating Temperature
Tstg	-50 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	VF	0.72V	Tc = 25°C
		0.54V	Tc = 125°C
Maximum Reverse Leakage Current	IR	0.05mA	Tc = 25°C
		10mA	Tc = 125°C
Maximum Voltage Rate of Change	dv/dt	10,000 V/μs	Rated VR
Typical Thermal Resistance, Junction to Case	Rθ(j-c)	2.2. °C/W	Per diode

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

T0-220AB

The diagram shows a mechanical drawing of the T0-220AB package. It includes a top view with dimensions B, C, D, E, F, G, H, I, J, K, L, M, N, O. A diode symbol is shown with terminals A1, A2, and K. The package is a TO-220AB type, which is a three-terminal, through-hole package.

DIMENSIONS					NOTE
DIM	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.579	.606	14.70	15.40	
B	.392	.411	9.95	10.45	
C	.114	.126	2.90	3.20	
D	.248	.272	6.30	6.90	
E	.325	.350	8.25	8.90	
F	.153	.173	3.90	4.40	
G	.492	.551	12.50	14.00	
H	.102	.114	2.60	2.90	
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	

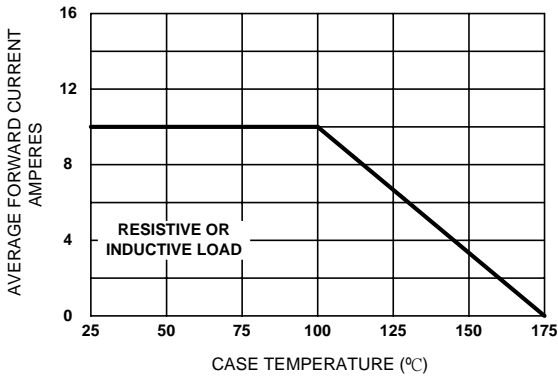


Figure 1. Forward Current Derating Curve

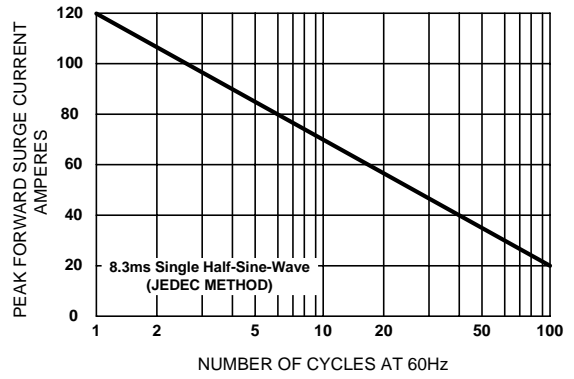


Figure 2. Maximum Non-repetitive Surge Current

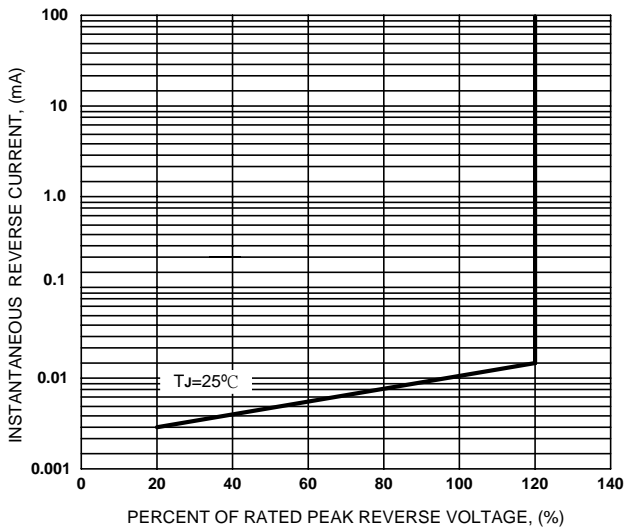


Figure 3. Typical Reverse Characteristics

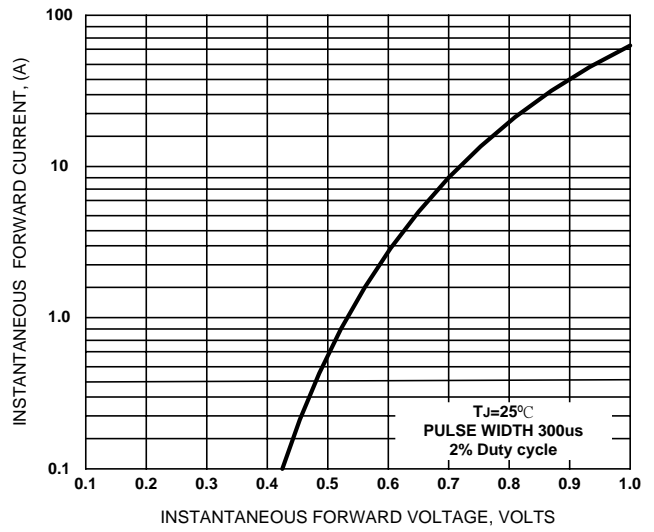


Figure 4. Typical Forward Characteristics

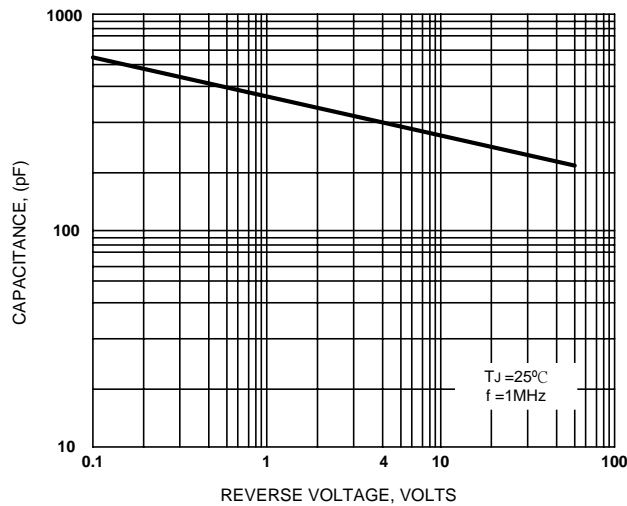


Figure 5. Typical Junction Capacitance