

Power Schottky Rectifier - 10Amp 150Volt

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

Absolute maximum ratings

Symbol	Ratings	Unit	Conditions
$I_{F(AV)}$	10	A	Average Forward Current
V_{RRM}	150	V	Repetitive Peak Reverse Voltage
I_{FSM}	120	A	Peak Forward Surge Current
$V_{F(max)}$	0.69	V	Forward Voltage Drop
T_j	-50 to +175	°C	Operating Temperature
T_{stg}	-65 to +150	°C	Storage Temperature

Electrical characteristics

Parameters	Symbol	Ratings	Conditions
Maximum Instantaneous Forward Voltage	V_F	0.88V	$T_c = 25^\circ\text{C}$
		0.69V	$T_c = 125^\circ\text{C}$
Maximum Reverse Leakage Current	I_R	0.01mA	$T_c = 25^\circ\text{C}$
		10mA	$T_c = 125^\circ\text{C}$
Maximum Voltage Rate of Change	dv/dt	10,000 V/ μs	Rated V_R
Typical Thermal Resistance, Junction to Case	$R_{\theta(j-c)}$	6 °C/W	

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

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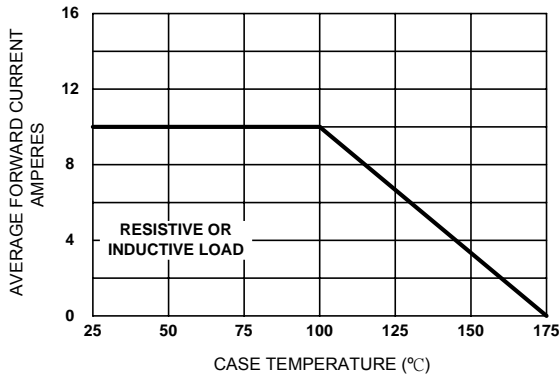


Figure 1. Forward Current Derating Curve

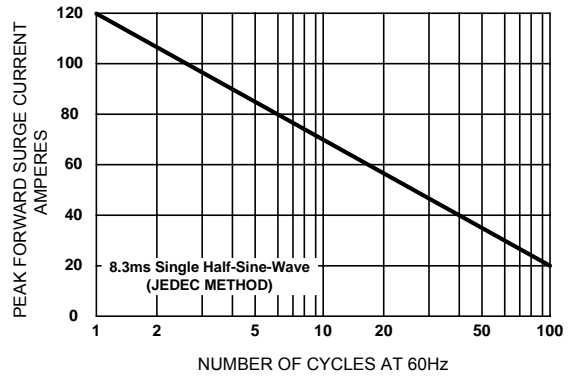


Figure 2. Maximum Non-repetitive Surge Current

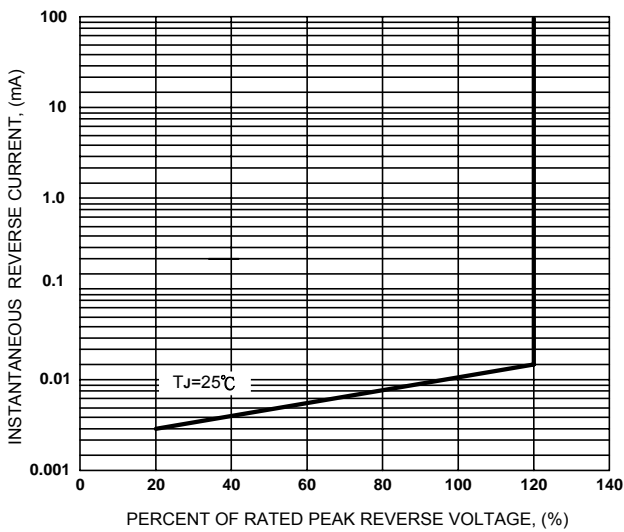


Figure 3. Typical Reverse Characteristics

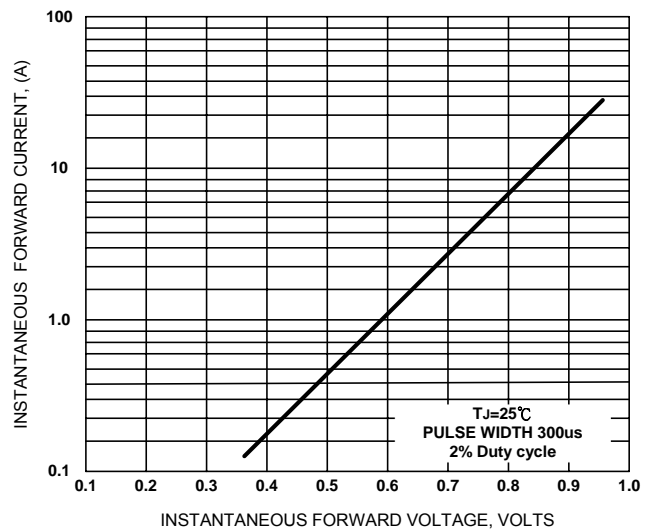


Figure 4. Typical Forward Characteristics

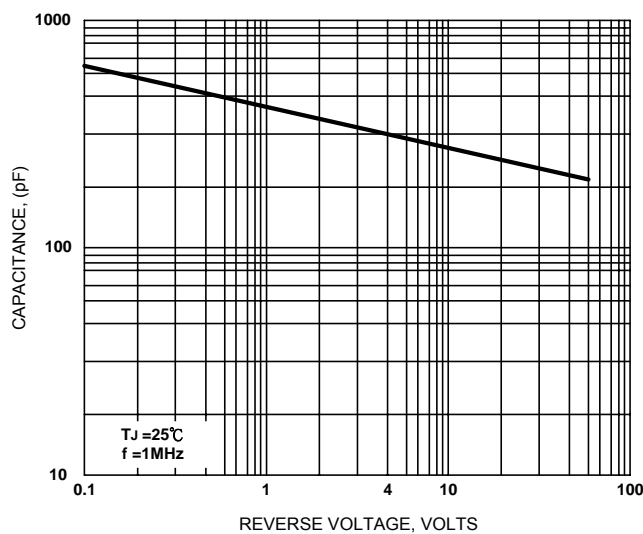
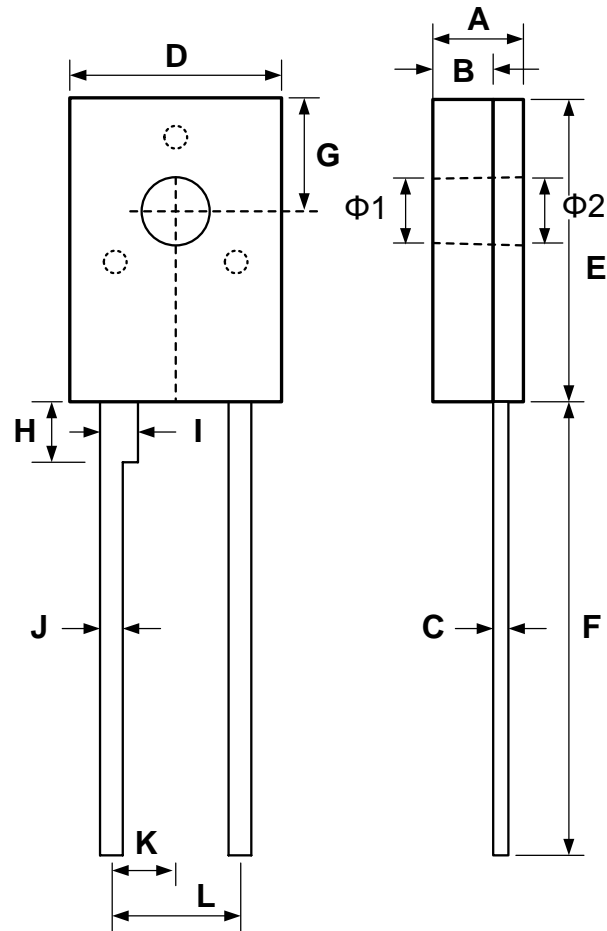


Figure 5. Typical Junction Capacitance

T0-126FC PACKAGE



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.118	.134	3.00	3.40	
B	.071	.087	1.80	2.20	
C	.018	.024	0.40	0.60	
D	.307	.323	7.80	8.20	
E	.421	.441	10.70	11.20	
F	.594	.614	15.10	15.60	
G	.150	.167	3.80	4.24	
H	.075	.089	1.90	2.25	
I	.048	.058	1.22	1.47	
J	.026	.034	0.66	0.86	
K	.090 TYP		2.28 TYP		
L	.173	.189	4.40	4.80	
Φ1	.122	.130	3.10	3.30	
Φ2	.122	.130	3.10	3.30	



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