

Power Schottky Rectifier - 10Amp 200Volt

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}	200	V	Repetitive Peak Reverse Voltage
I_{FSM}	120	A	Peak Forward Surge Current
$V_{F(max)}$	0.72	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	0.90V	$T_c = 25^\circ\text{C}$
		0.72V	$T_c = 125^\circ\text{C}$
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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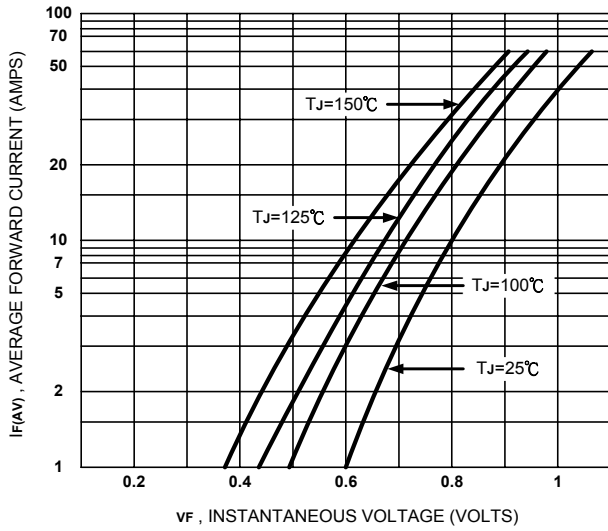


Figure 1. Typical Forward Voltage (Per Leg)

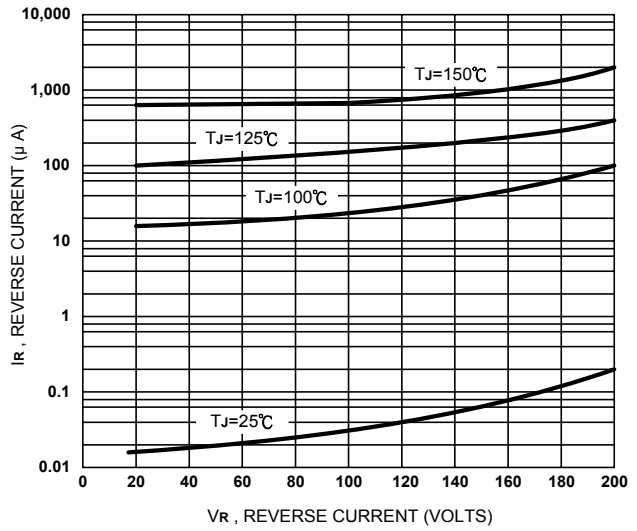


Figure 2. Typical Reverse Current (Per Leg)

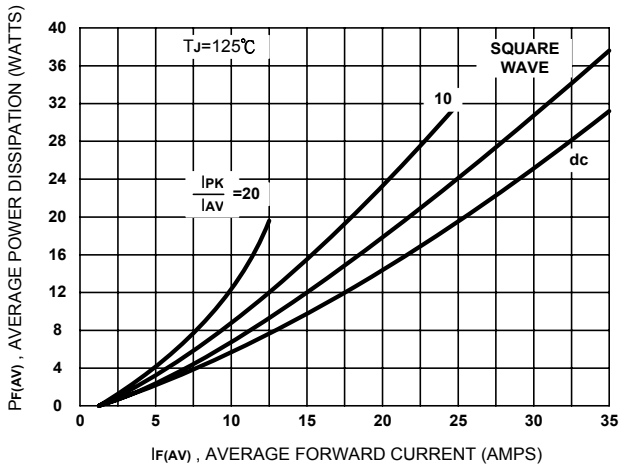


Figure 3. Forward Power Dissipation

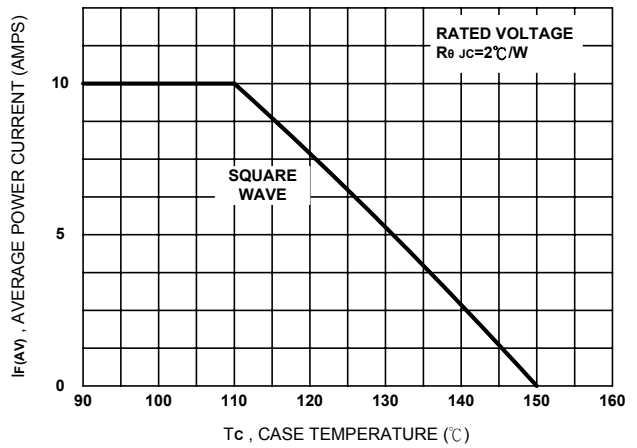


Figure 4. Forward Current Derating, Case

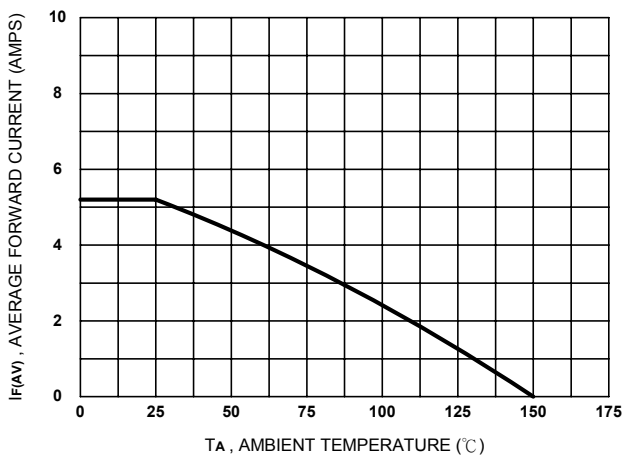


Figure 5. Current Derating, Ambient

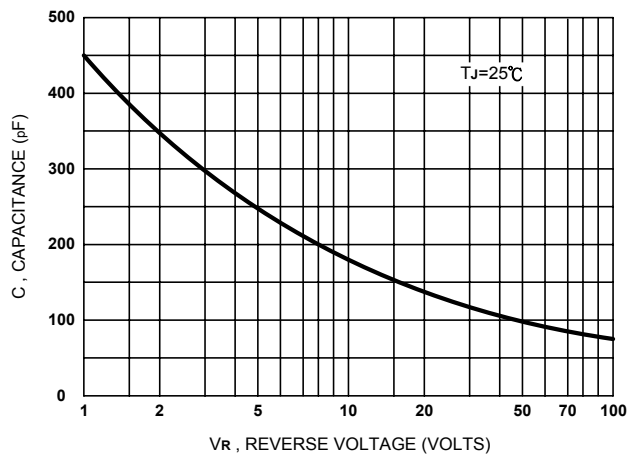
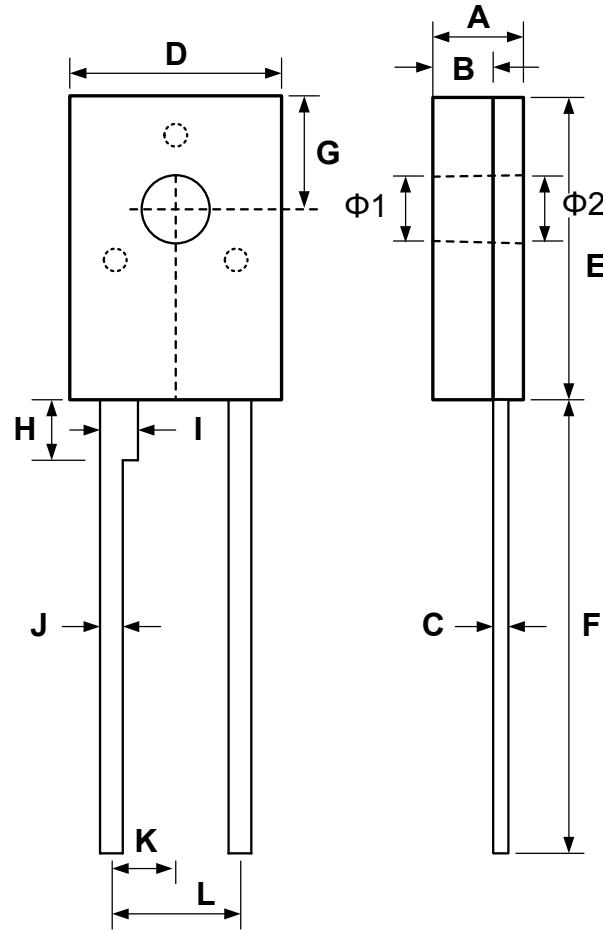


Figure 6. Typical Capacitance (Per Leg)

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	



Sirectifier Global Corp., Delaware, U.S.A.

U.S.A.: sgc@sirectsemi.com France: ss@sirectsemi.com Taiwan: se@sirectsemi.com Hong Kong: hk@sirectsemi.com
 China: st@sirectsemi.com Thailand: th@sirectsemi.com Philippines: aiac@sirectsemi.com Belize: belize@sirectsemi.com