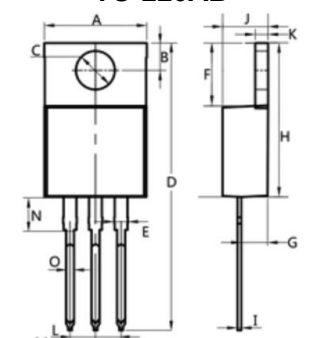


Dual Fast Recovery Rectifiers

Designed for use in switching power supplies, inverters and as free wheeling diodes. These state-of-the-art devices have the following features:

Features

- Glass Passivated chip junctions
- Low Reverse Leakage Current
- Fast Switching for High Efficiency
- 150°C Operating Junction Temperature
- Low Stored Charge Majority Carrier Conduction
- Low Forward Voltage , High Current Capability
- Plastic Material used Carries Underwriters Laboratory
- Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2011/65/EU directive.

TO-220AB		
		
DIM	MILLIMETERS	
	MIN	MAX
A	10.0	10.4
B	2.5	3.0
C	3.5	4.0
D	28.0	30.0
E	1.1	1.5
F	6.2	6.6
G	2.9	3.3
H	15.0	16.0
I	0.35	0.45
J	4.3	4.7
K	1.2	1.4
L	Typ 5.08	
M	Typ 2.54	
N	3.1	3.5
O	0.7	0.9

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage Working Peak Reverse Voltage Maximum DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	V
Average Rectifier Forward Current (per diode) Total Device (Rated VR), $T_C=125^\circ\text{C}$	I_O	6 12	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave	I_{FSM}	100	A
Operating and Storage Temperature Range	T_J, T_{stg}	-65 to +150	°C
Typical Thermal Resistance junction to case (per device)	$R_{\theta j-c}$	3.4	°C/W

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage (per diode) (Note1) ($I_F = 6.0$ Amp $T_C = 25^\circ\text{C}$)	V_F	1.3	V
Maximum Instantaneous Reverse Current	I_R	5.0	uA
		100	uA
Reverse Recovery Time ($I_F = 0.5$ A, $I_R = 1.0$, $I_{rr} = 0.25$ A)	T_{rr}	50	nS
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	55	pF

Note1: Pulse test: 300 μs pulse width, 1 % duty cycle

FIG-1 TYPICAL FORWARD CHARACTERISTICS

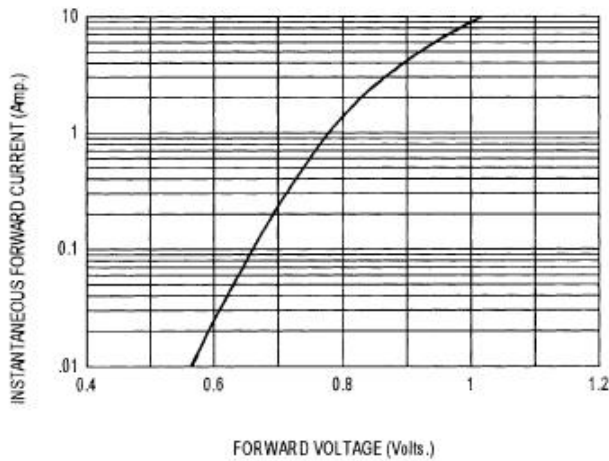


FIG-2 TYPICAL REVERSE CHARACTERISTICS

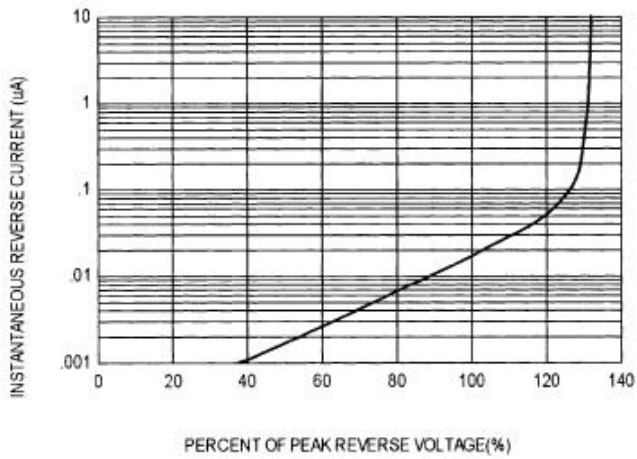


FIG-3 FORWARD CURRENT DERATING CURVE

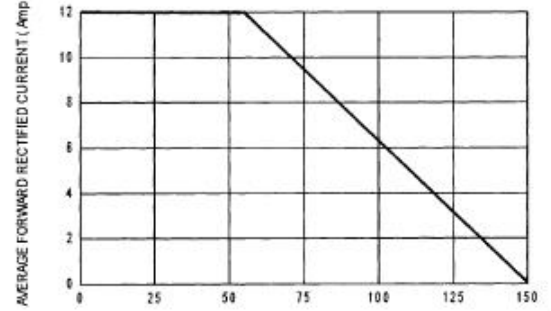


FIG-4 TYPICAL JUNCTION CAPACITANCE

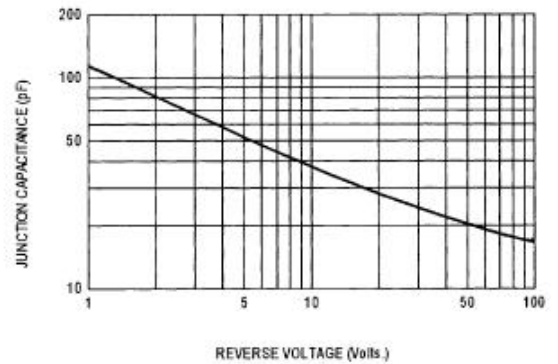


FIG-5 PEAK FORWARD SURGE CURRENT

