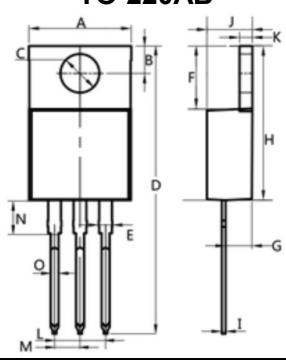


Dual Fast Recovery Rectifiers

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°C	I _O	8 16	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave	I _{FSM}	120	A
Operating and Storage Temperature Range	T _J , T _{stg}	-65 to +150	°C
Typical Thermal Resistance junction to case (per device)	R _{θj-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 =5.0 Amp TC = 25°C)	V _F	1.00	V
Maximum Instantaneous Reverse Current	I _R	0.1	uA
		100	uA
Reverse Recovery Time (I _F = 0.5 A, I _R =1.0 , I _{rr} =0.25 A)	T _{rr}	30	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

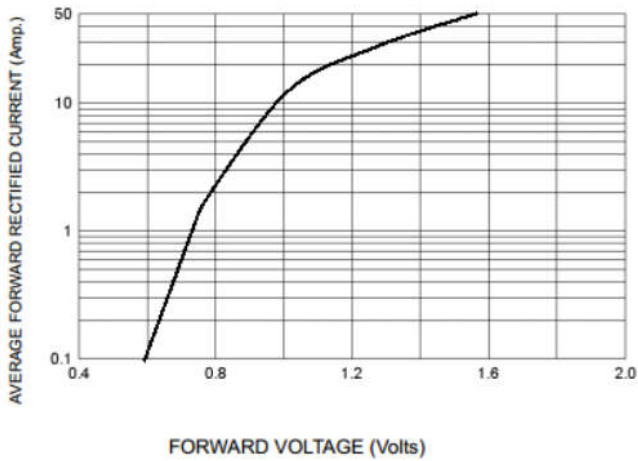


FIG-2 TYPICAL REVERSE CHARACTERISTICS

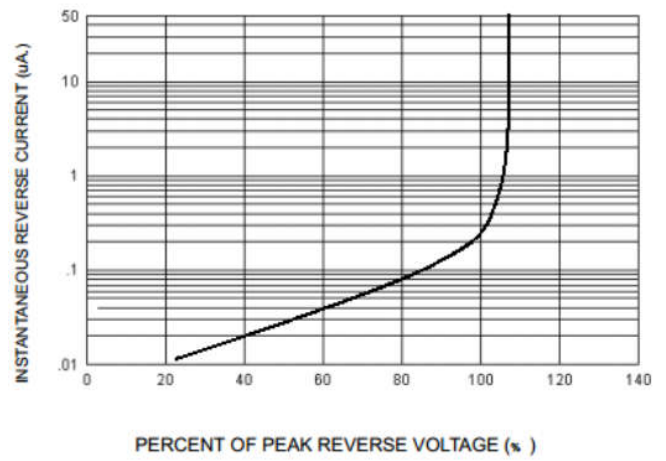


FIG-3 FORWARD CURRENT DERATING CURVE

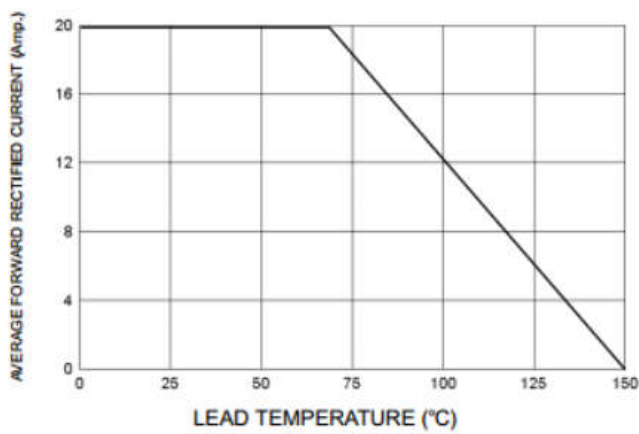


FIG-4 TYPICAL JUNCTION CAPACITANCE

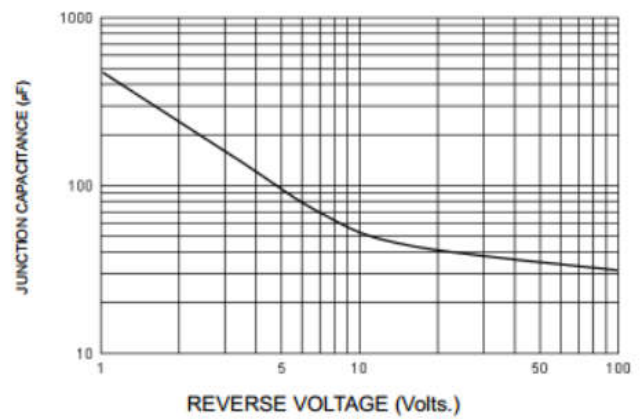


FIG-5 PEAK FORWARD SURGE CURRENT

