

Switchmode Dual Ultrafast Power Rectifiers

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

- * High Surge Capacity
- * Low Power Loss, High efficiency
- * Glass Passivated chip junctions
- * 150 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction
- * Low Forward Voltage , High Current Capability
- * High-Switching Speed 35 Nanosecond Recovery Time
- * Plastic Material used Carries Underwriters Laboratory

MAXIMUM RATINGS

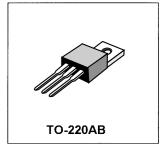
Characteristic	Symbol U12C					Unit
		05	10	15	20	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	٧
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	٧
Average Rectifier Forward Current Per Leg T _c =125°C Per Total Device	l _{F(AV)}	6.0 12			A	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz, T _c =125°C)	I _{FM}	12			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	FSM	100			А	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 65 to + 150			°C	

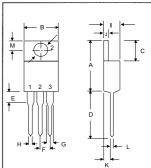
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	U12C				Unit
		05	10	15	20	
Maximum Instantaneous Forward Voltage $(I_F=6.0 \text{ Amp}, T_c=25 ^{\circ}\text{C})$ $(I_F=6.0 \text{ Amp}, T_c=100 ^{\circ}\text{C})$	V _F	0.975 0.870			V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 125 °C)	I _R	5.0 100			uA	
Reverse Recovery Time (I _F = 0.5 A, I _R = 1.0 , I _{rr} = 0.25 A) T _{rr} 35			ns			
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	55		pF		

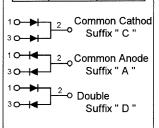
ULTRA FAST RECTIFIERS

12 AMPERES 50 -- 200 VOLTS





	MILLMETERS			
DIM	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	6.01	6.52		
D	13.06	14.62		
E	3.57	4.07		
F	2.42	2.66		
G	1.12	1.36		
Н	0.72	0.96		
ı	4.22	4.98		
J	1.14	1.36		
K	2.20	2.97		
L	0.33	0.55		
М	2.48	2.98		
0	3.70	3.90		



Notes:

1. Rise Time = 7 ns max. Input Impedance =1 M Ω , 22 pF 2. Rise Time = 10 ns max. Input Impedance = 50 Ω

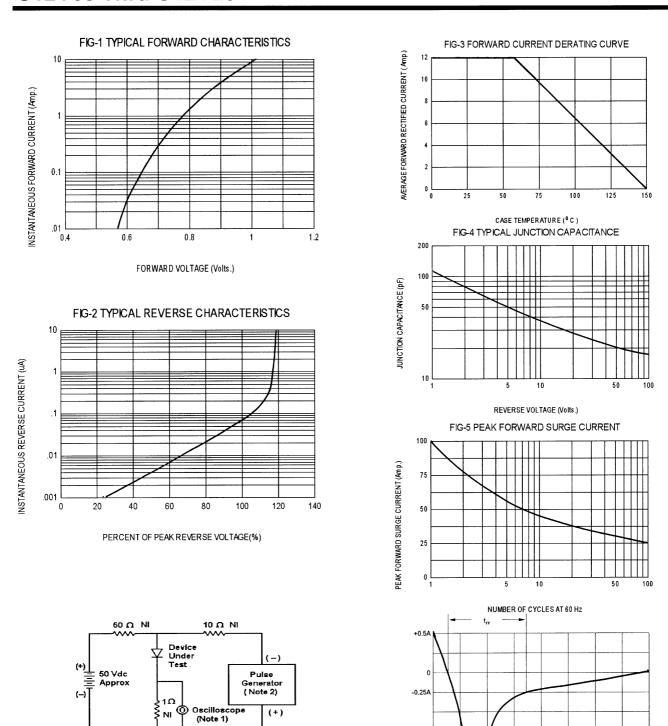


Fig-6 Reverse Recovery Time Characteristic and Test Circuit Diagram

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for mospec manufacturer:

Other Similar products are found below:

 MBRF10200C
 MBR10100CK
 MBR10150CK
 MBRF20150C
 MBRF10200CK
 MBR10100CL
 MBR10150CL
 MBRF20150CK

 MBRF20200CL
 SR5100M
 SR2100M
 SR24
 MBRF20200CK
 MBRF20100CL
 MBR30100CT
 U30D40C
 SR3150M
 SK24
 SR5100L

 SR306M
 SK310
 ABS8
 SR504M
 SR506M
 SR504L
 SR306L
 SRT5100M
 SR304M
 U30D20A
 MBRF10150CK
 SF34
 SR506L
 SRM504M

 SR5150M
 SR3100M
 SRT5150
 SRT3100M
 U12C20A
 SR3100L
 ABS10
 SR2100L
 U16C20C
 MB8F 46MIL