

FR101 THRU FR107

FAST RECOVERY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Fast switching for high efficiency Low reverse leakage High forward surge current capability High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams

0.107(2.7) 0.080(2.0) DIA. 1.0(25.4) MIN 0.205(5.2)/0.160(4.1) 1.0(25.4) MIN 1.0(25.4)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	FR 101	FR 102	FR 103	FR 104	FR 105	FR 106	FR 107	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	Icaro	I(AV) 1.0						А	
0.375"(9.5mm) lead length at Ta=75°C	I(AV)	1.0							
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM 30.0							Α	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							V
Maximum DC reverse current T _A =25°C		5.0 100.0							μА
at rated DC blocking voltage Ta=100℃	l _R								
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	15.0						pF	
Typical thermal resistance (NOTE 3)	RθJA	50.0						°C/W	
Operating junction and storage temperature range	Тл,Тѕтс	-55 to +150						°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

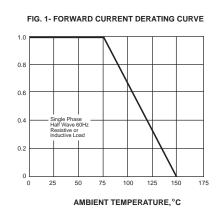
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

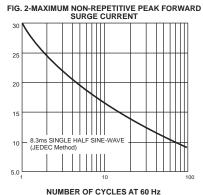


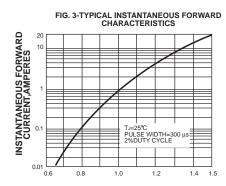
RATINGS AND CHARACTERISTIC CURVES FR101 THRU FR107

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

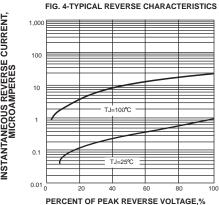




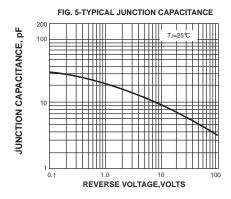


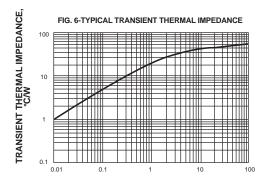


INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

单击下面可查看定价,库存,交付和生命周期等信息

>>ZG(中鑫半导体)