Tel: (852) 8106 7033

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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:

◆250°C/10 seconds,0.375"(9.5mm) lead length,5 lbs. (2.3kg) tension

MECHANICAL DATA

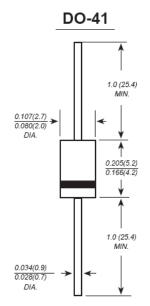
Case: JEDEC DO-41 molded plastic body

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



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	FR	FR	FR	FR	FR	FR	FR	UNITS
		101	102	103	104	105	106	107	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	Long	1.0							Amp
0.375"(9.5mm) lead length at TA=75℃	I(AV)								
Peak forward surge current	IFSM 30.0								
8.3ms single half sine-wave superimposed on							Amps		
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current TA=25℃	lo.	5.0 50.0							mA
at rated DC blocking voltage TA=100℃	l _R								
Maximum reverse recovery time (NOTE 1)	trr		1:	50		250	50	00	ns
Typical junction capacitance (NOTE 2)	Сл	15.0						pF	
Typical thermal resistance (NOTE 3)	RөJA	50.0						°C/W	
Operating junction and storage temperature range	Т _J ,Тsтg	-65 to +150							$^{\circ}$

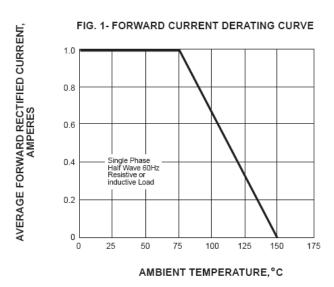
Note: 1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

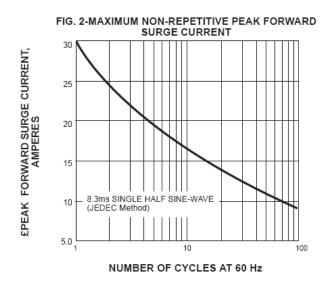
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

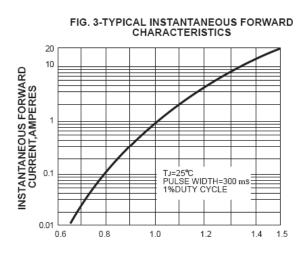
3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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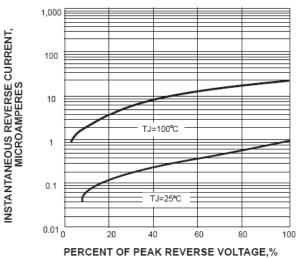
RATINGS AND CHARACTERISTIC CURVES FR101 THRU FR107



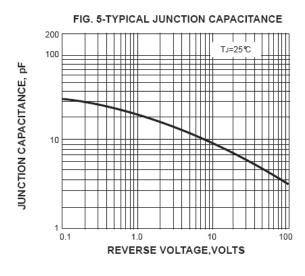




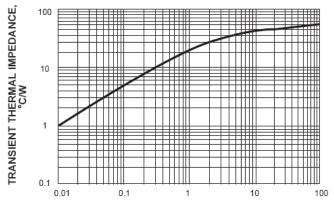




INSTANTANEOUS FORWARD VOLEAGE, VOLTS







t,PULSE DURATION,sec.