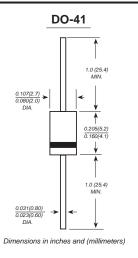
FR101 THRU FR107



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

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%.

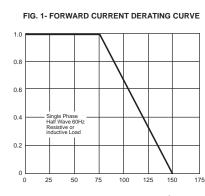
	SYMBOLS	FR	FR	FR	FR	FR	FR	FR	UNITS
Maximum repetitive peak reverse voltage	Vrrm	101 50	102 100	103 200	104 400	105 600	106 800	107	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	Imo	I(AV) 1.0							Amn
0.375"(9.5mm) lead length at Ta=75℃	I(AV)	1.0							Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM 30.0							Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current T _A =25℃		5.0							μА
at rated DC blocking voltage Ta=100℃	l _R	50.0							μΛ
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	Т _J ,Тsтg	-65 to +150							°C

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

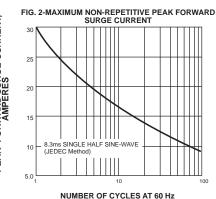
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted











AMBIENT TEMPERATURE,°C

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

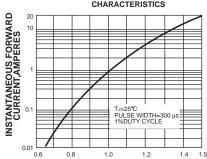
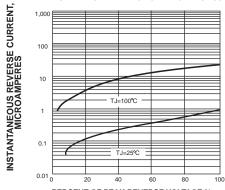
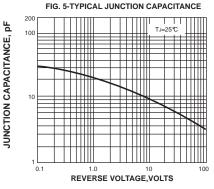


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

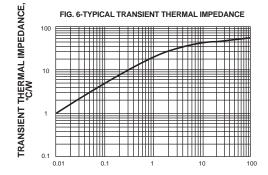


INSTANTANEOUS FORWARD VOLTAGE, VOLTS









t,PULSE DURATION,sec.