

FR151 THRU FR157

FAST RECOVERY SILICON RECTIFIERS

FEATURES:

- Low cost
- High surge current capability
- Low leakage current
- Low forward voltage drop
- Diffused junction

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy Terminals : Axial leads, solderable per MIL-STD-202F, Method 208 Polarity : Color band on body denotes cathode Mounting Position : Any Weight : 0.35 grams

DO-204AC(DO-15)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified. Single phase, half sine wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20 %.

Characteristic	Symbol	FR 151	FR 152	FR 153	FR 154	FR 155	FR 156	FR 157	Units
Maximum recurrent 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 at Ta=55℃	lo	1.5							Amps
Peak forward surge current ,8.3ms single half sine-wav superimposed on rated load(JEDEC Method)	^e Ifsm	50.0							Amps
Maximum instantaneous forward voltage drop at 1.5 A	VF				1.30				Volts
Maximum DC reverse currentTa=25℃at rated DC blocking voltageTa=55℃	IR	5.0 30.0							μ Α
Typical reverse recovery time (note 1)	trr	150	150	150	150	250	500	500	nS
Typical junction capacitance (note 2)	Cj	20						pF	
Operating junction and storage temperature range	Tj,Tstg		-65 to +125			-65 to +150			r

NOTES:1. Reverse recovery test condition; I F=0.5A, IR=1.0A, IRR=0.25A 2. Measured at 1MHz and Applied reverse voltage of 4.0V Dc



RATINGS AND CHARACTERISTIC CURVES

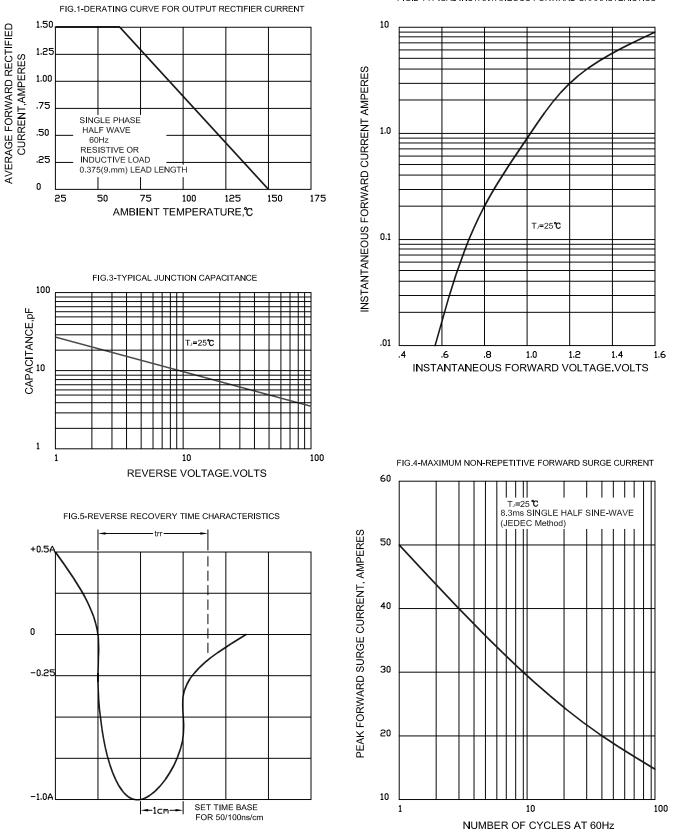


FIG 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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