



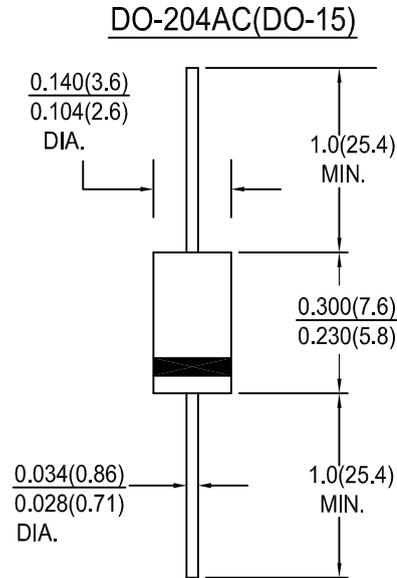
FAST RECOVERY SILICON RECTIFIERS

FEATURES:

- High temperature bonded construction
- Fast switching for use in high frequency circuit
- No thermal runaway at 2.0 Amp. Current Ta=55°C
- High temperature soldering guaranteed : 250 °C /10 seconds, 0.375" lead length, 5lbs.(2.3kg) tension

MECHANICAL DATA

Case : Molded plastic UL 94V-0 recognized flame retardant epoxy
 Terminals : Axial leads, solderable per MIL-STD-202, Method 208
 Polarity : Color band on body denotes cathode end
 Mounting Position : Any
 Weight : 0.4 grams, 0.015 ounce



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

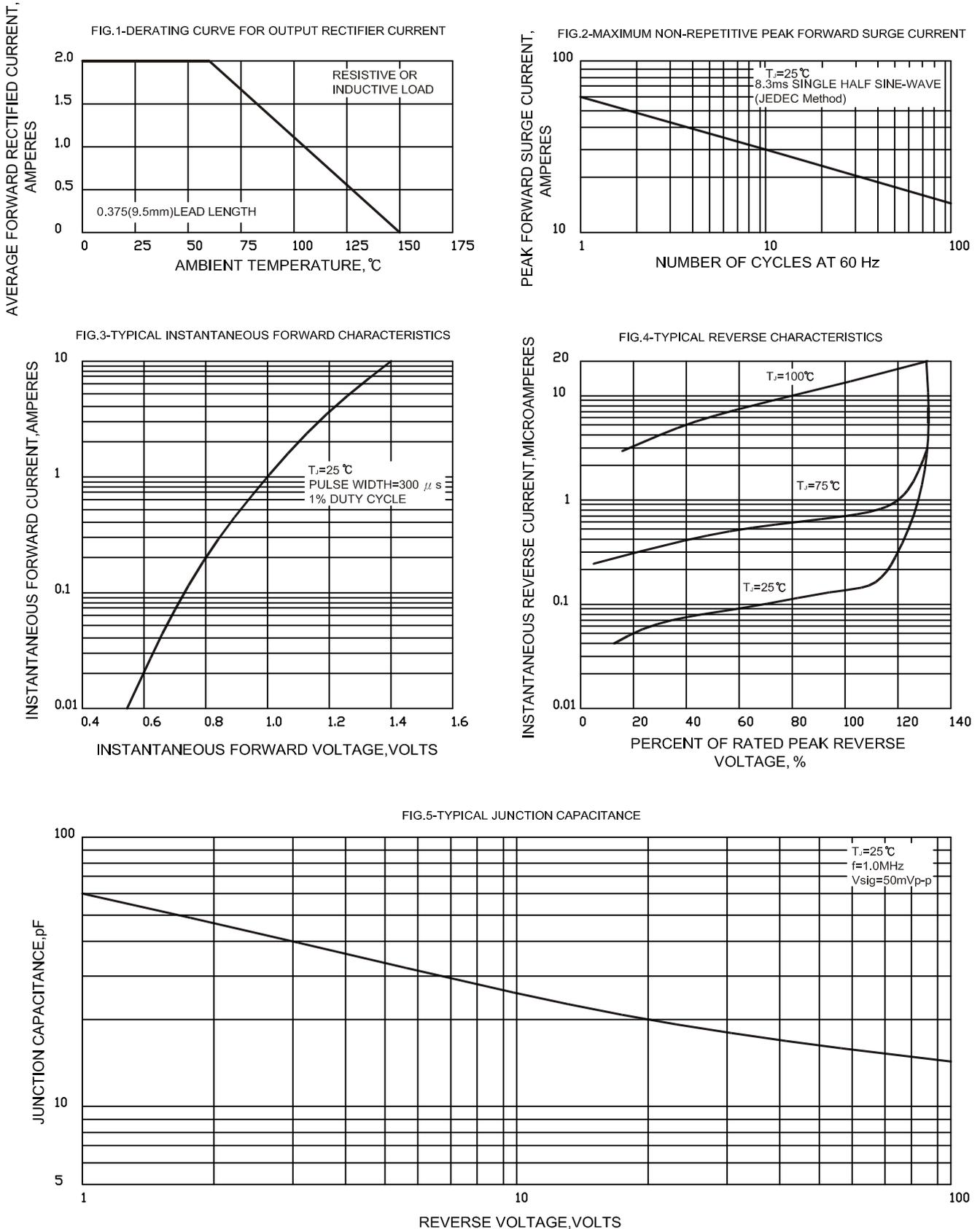
Rating at 25°C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	FR 201	FR 202	FR 203	FR 204	FR 205	FR 206	FR 207	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375 lead length at Ta=55°C	I _(AV)	2.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	60.0							Amps
Maximum instantaneous forward voltage drop at 2.0 A	V _F	1.3							Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25°C Ta=100°C	I _R	5.0 100.0							μ A
Typical reverse recovery time (note 1)	trr	150	150	150	150	250	500	500	nS
Typical thermal resistance	R _{th-JA}	22							°C/W
Typical junction capacitance (note 2)	C _j	35.0							pF
Operating junction and storage temperature range	T _j , T _{stg}	-65 to +150							°C

NOTES:1. Reverse recovery test condition; I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
 2. Measured at 1MHz and Applied reverse voltage of 4.0V.DC



RATINGS AND CHARACTERISTIC CURVES





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