



SILICON RECTIFIERS

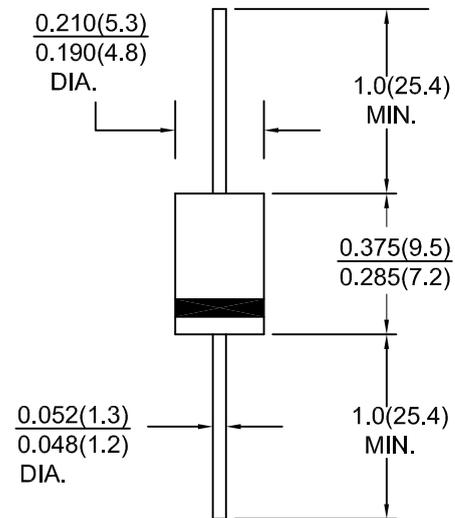
FEATURES:

- 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-202, Method 208 guaranteed
 Polarity : Color band on body denotes cathode end
 Mounting Position : Any
 Weight : 1.2 grams

DO-201AD



Dimensions in inches and (millimeters)

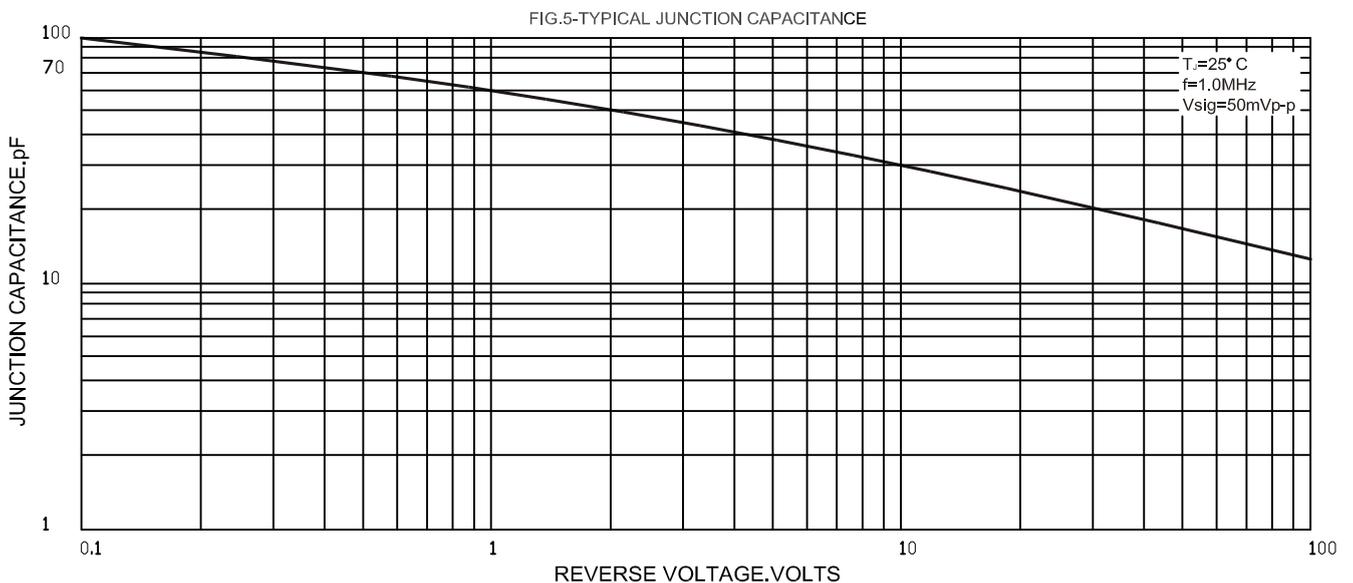
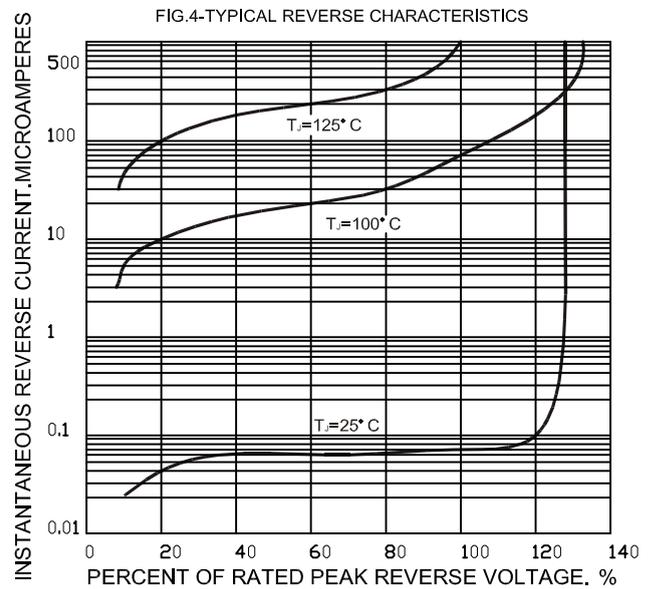
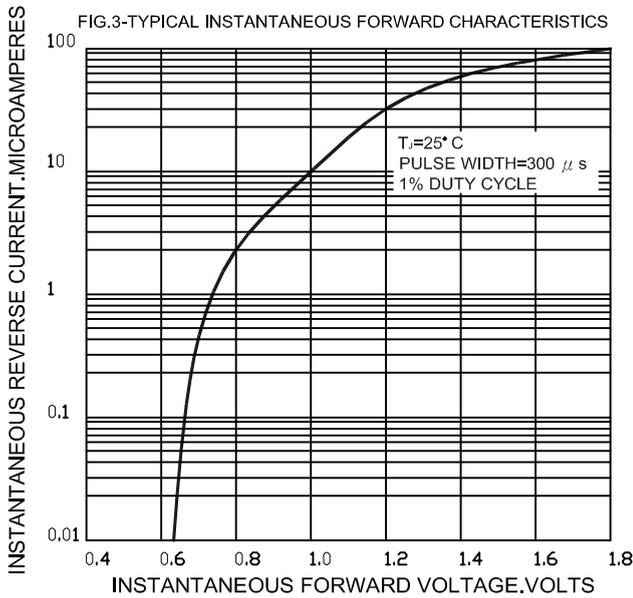
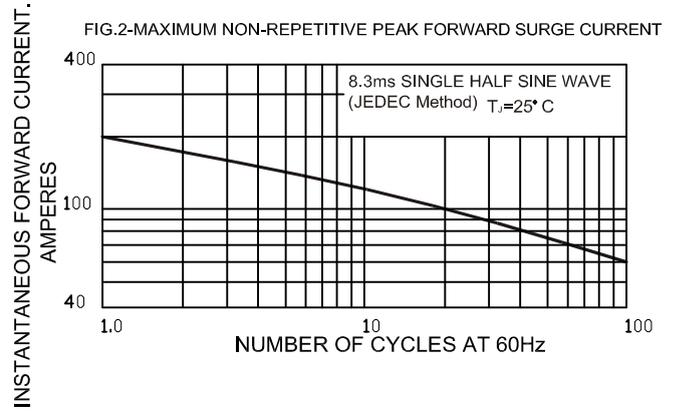
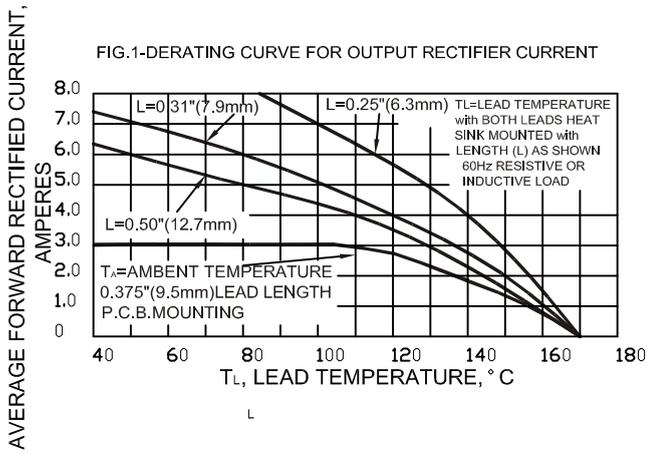
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	1N	1N	1N	1N	1N	1N	1N	1N	1N	Units
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at T _L =105° C	I _O	3.0									Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	200									Amps
Maximum instantaneous forward voltage drop at 3.0 A	V _F	1.1									Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	10 500									μ A
Maximum full load reverse current, full cycle average .375"(9.5mm) lead length TL=70° C	I _{R(AV)}	30									μ A
Typical junction capacitance	C _j	50									pF
Typical thermal resistance	R _{th-JA}	18									° C/W
Operating junction and storage temperature range	T _j , T _{stg}	-65 to +125				-65 to +150					° C



RATINGS AND CHARACTERISTIC CURVES





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