

1N5391S THRU 1N5399S

SILICON RECTIFIERS

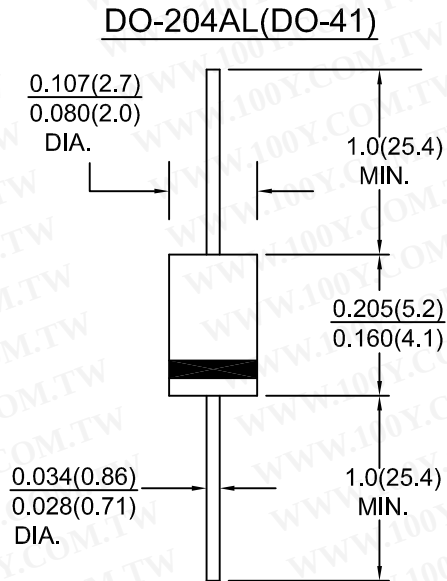
FEATURES:

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

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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
Mounting Position : Any
Weight : 0.40 gram



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.

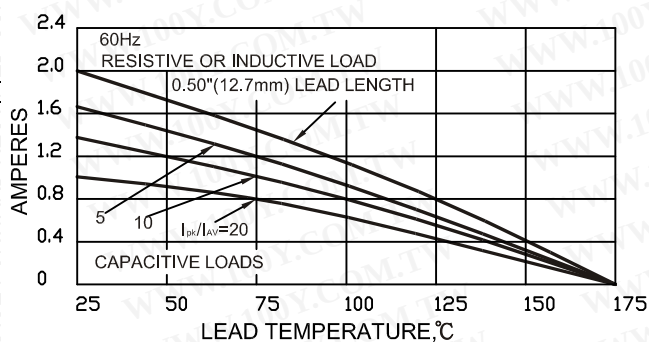
For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N5391S	1N5392S	1N5393S	1N5394S	1N5395S	1N5396S	1N5397S	1N5398S	1N5399S	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at Ta=75°C	IO	1.5									Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	50.0									Amps
Maximum instantaneous forward voltage at 1.5 A	VF	1.1	1.0							Volts	
Maximum DC reverse current at rated DC reverse voltage Ta=25°C Ta=125°C	IR	5.0 50.0							μ A		
Typical junction capacitance	Cj	25							pF		
Operating junction and storage temperature range	Tj,Tstg	-65 to +125				-65 to +150				°C	

RATINGS AND CHARACTERISTIC CURVES 1N5391S THRU 1N5399S

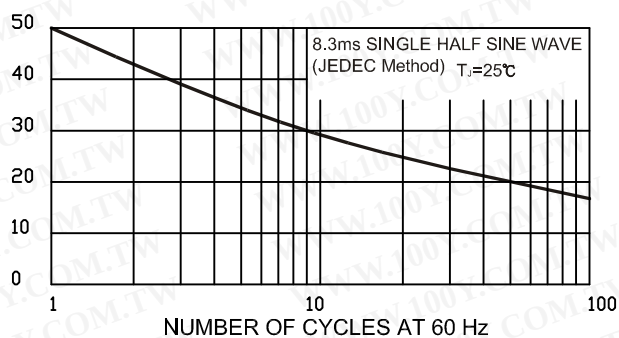
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT



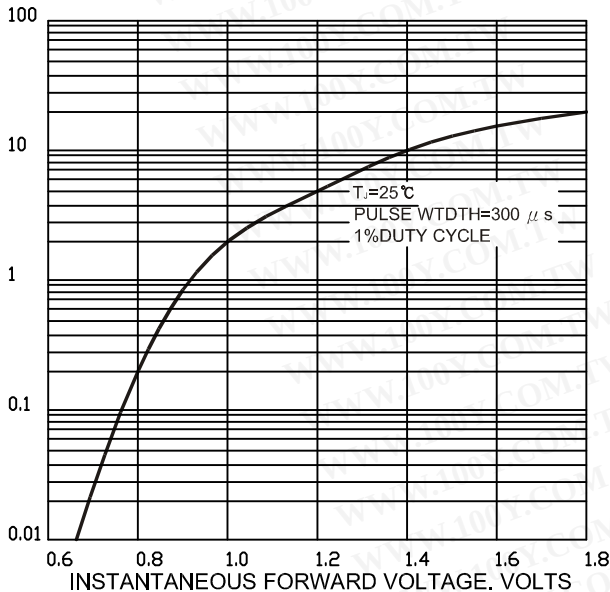
PEAK FORWARD SURGE CURRENT, AMPERES

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG.4-TYPICAL REVERSE CHARACTERISTICS

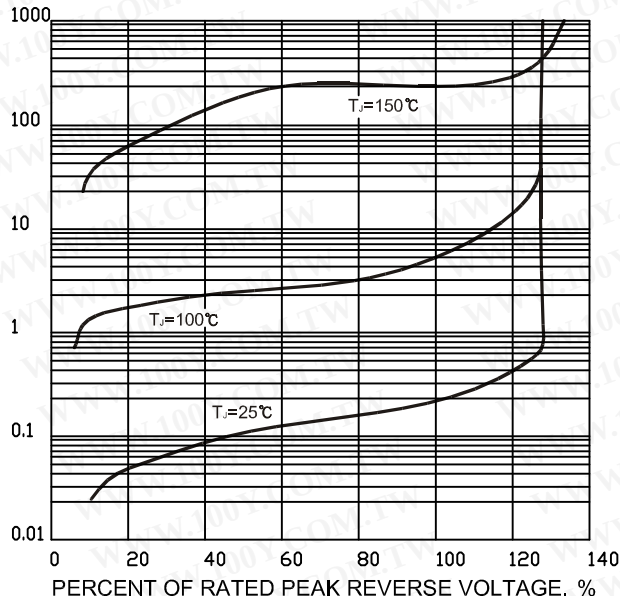
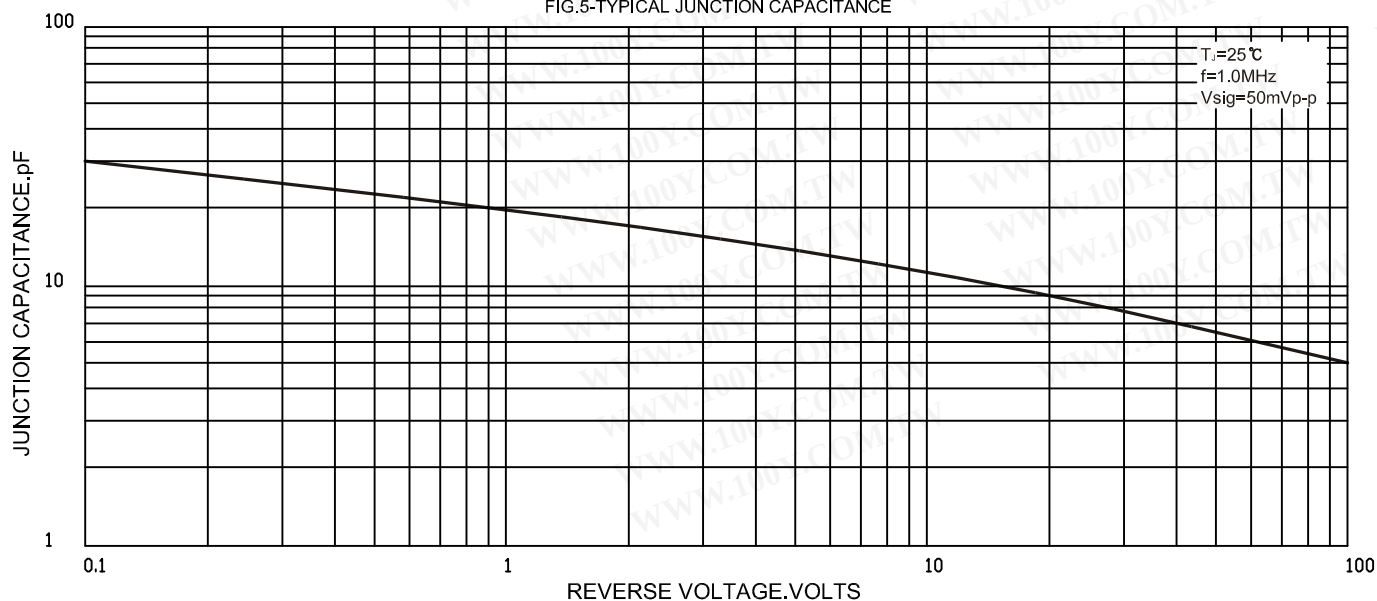


FIG.5-TYPICAL JUNCTION CAPACITANCE



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