

1N5817 THRU 1N5819

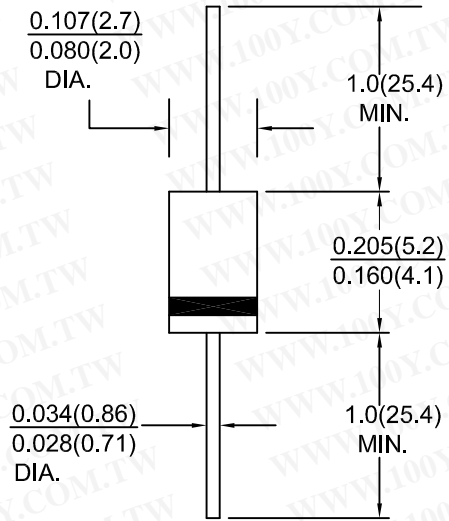
SCHOTTKY BARRIER RECTIFIERS

FEATURES:

- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application

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)

DO-204AL(DO-41)



MECHANICAL DATA

Case : Molded plastic use 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 : 0.34 grams, 0.012 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	1N5817	1N5818	1N5819	Units
Maximum recurrent peak reverse voltage	VRRM	20	30	40	Volts
Maximum RMS voltage	VRMS	14	21	28	Volts
Maximum DC blocking voltage	VDC	20	30	40	Volts
Maximum average forward rectified current at TL=90° C	I(AV)	1.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	25			Amps
Maximum instantaneous forward voltage at 1.0 A (NOTE 1)	VF	0.50	0.55	0.60	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	IR	1.0 10.0			mA
Typical thermal resistance	Rth-JA	50			°C/W
	Rth-JL	10			
Typical junction capacitance	CJ	110.0			pF
Operating junction ,and storage temperature range	Tj, Tstg	-65 to +125			°C

NOTE :

1.Pulse test: 300 us pulse width, 1% duty cycle

RATINGS AND CHARACTERISTIC CURVES 1N5817 THRU 1N5819

FIG.1-DERATIVE CURVE FOR OUTPUT RECTIFIER CURRENT

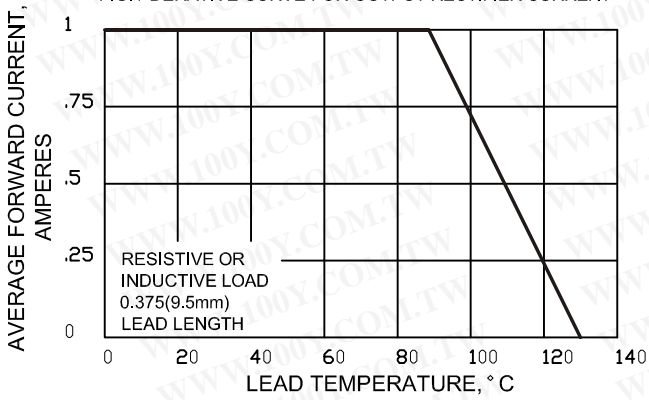


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

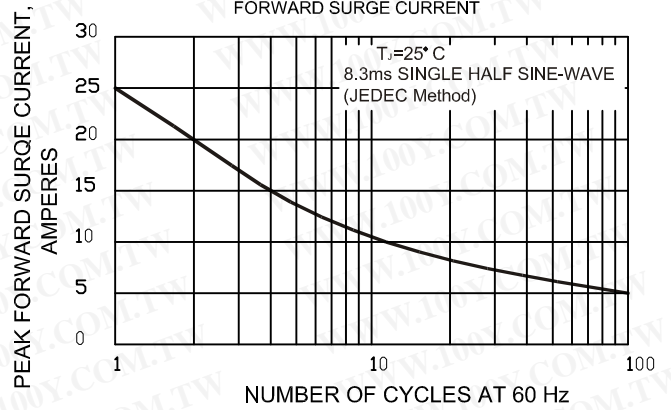


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

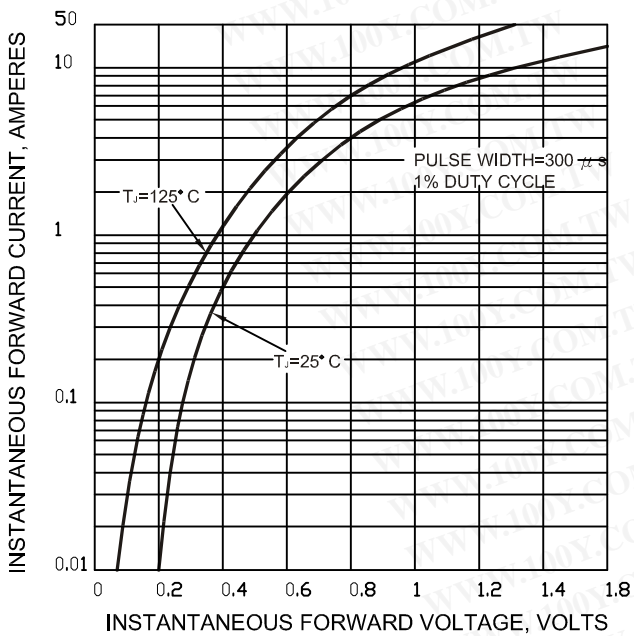


FIG.4-TYPICAL REVERSE CHARACTERISTICS

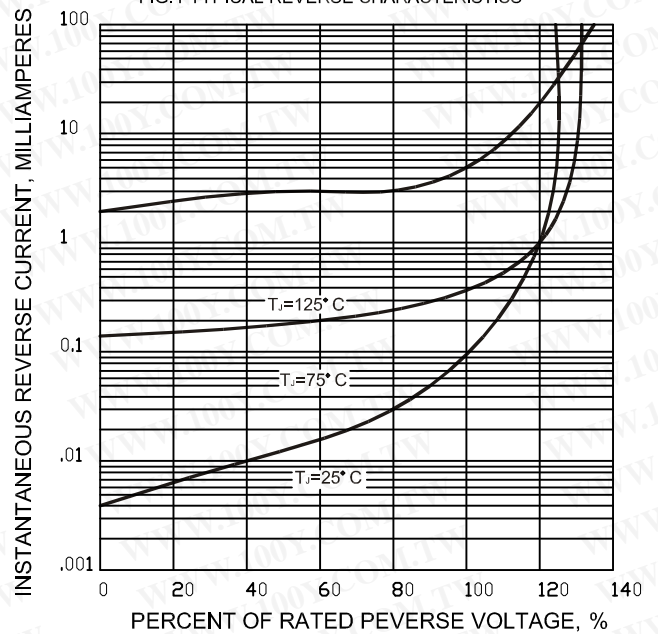


FIG.5-TYPICAL JUNCTION CAPACITANCE

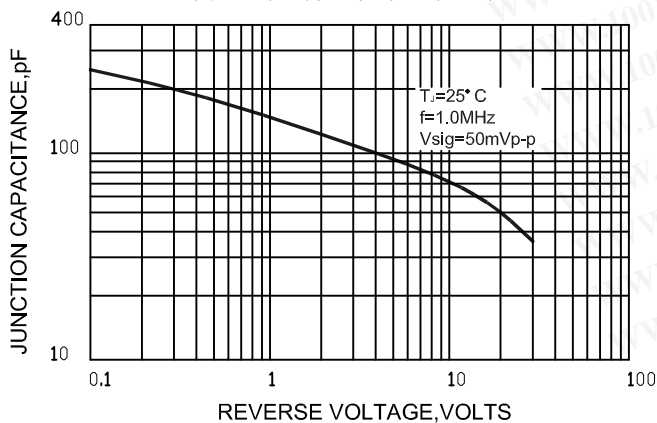
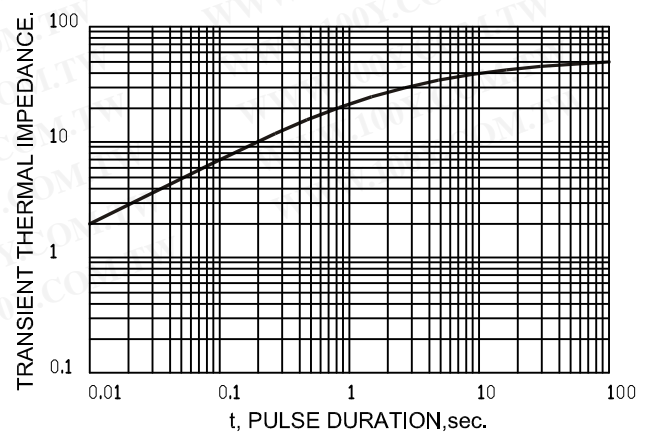


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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