

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)

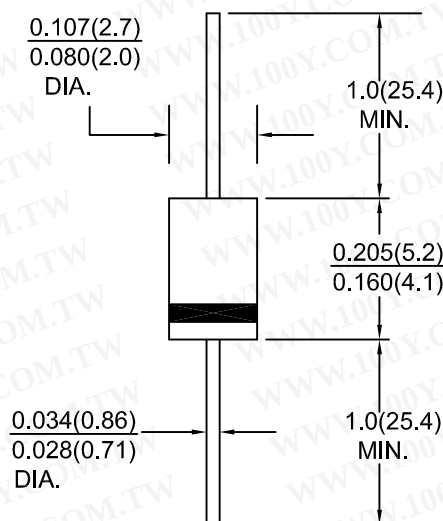
FEATURES:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

MECHANICAL DATA

Case : Molded plastic
 Epoxy: UL 94V-0 rate flame retardant
 Lead : Axial leads solderable per MIL-STD-202
 Method 2028 guaranteed
 Polarity : Color band denotes cathode end
 Mounting Postition: Any
 Mounting Torque 5 in - lbs.max
 Weight : 0.34 grams

DO-204AL/DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load, derate current by 20%.

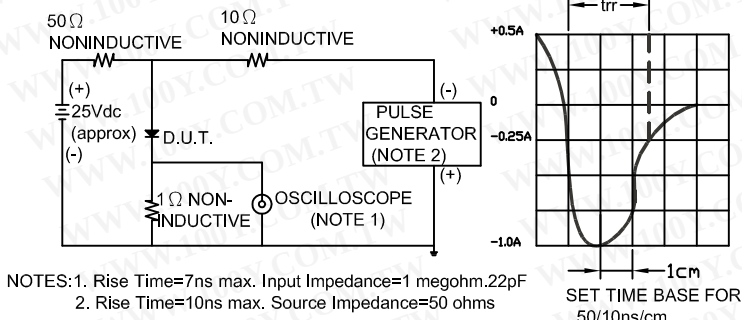
Characteristic	Symbol	SF 11G	SF 12G	SF 13G	SF 14G	SF 15G	SF 16G	SF 17G	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	600	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at Ta=55°C	I _(AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							Amps
Maximum instantaneous forward voltage IF=1.0A	V _F	0.95				1.25		1.70	Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=125°C	I _R	5.0 100							uA
Maximum reverse recovery time (NOTE 1)	T _{RR}	35							ns
Typical Junction Capacitance(NOTE 2)	C _J	50							Pf
Operating temperature range	T _J	-65to+150							°C
Storage temperature range	T _{Stg}	-65to+175							°C

NOTES :

- 1.Reverse recovery test condition : $I_F = 0.5A$; $I_R = 1.0A$; $IRR = 0.25A$
- 2.Measured 1MHZ and applied reverse voltage of 4.0VDC

RATINGS AND CHARACTERISTIC CURVES SF11G THRU SF17G

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

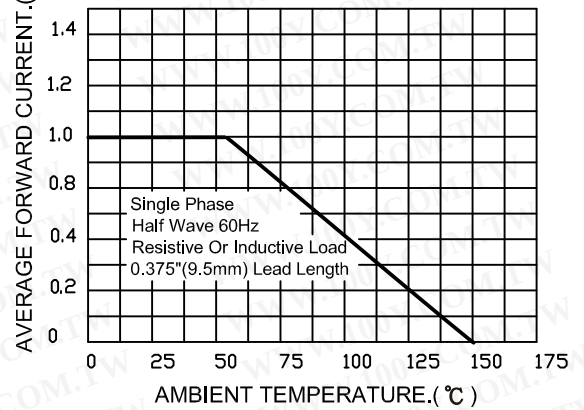


FIG.3-TYPICAL FORWARD CHARACTERISTICS

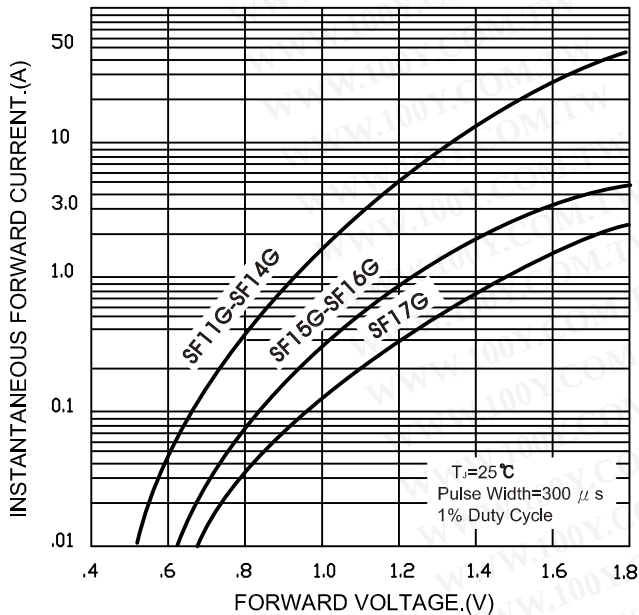


FIG.4-TYPICAL REVERSE CHARACTERISTICS

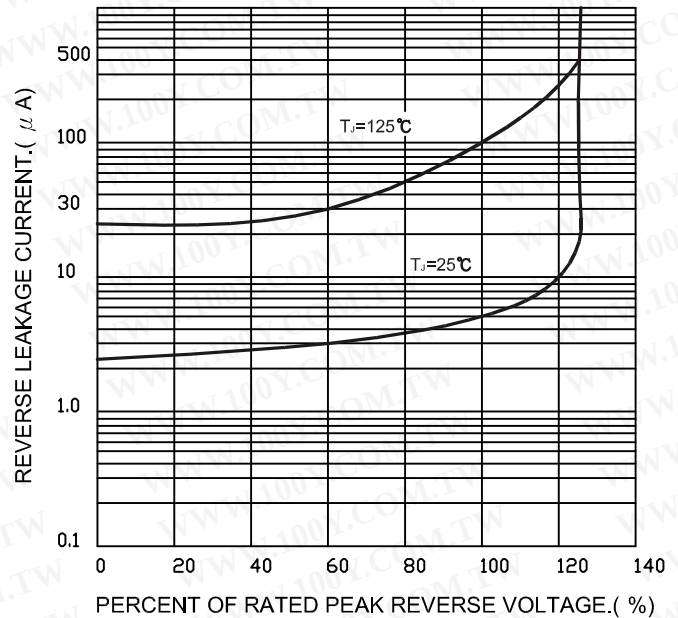


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

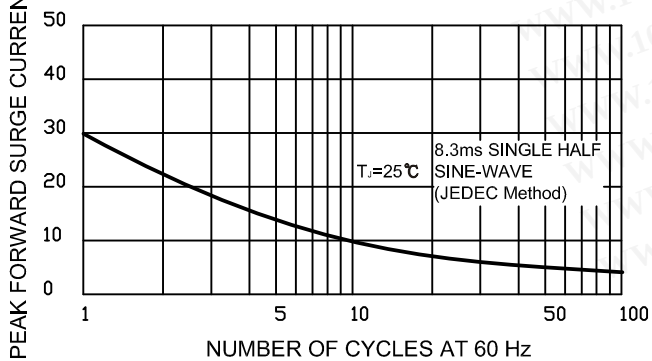


FIG.6-TYPICAL JUNCTION CAPACITANCE

