



1N5400~1N5408

3.0Amp Silicon Rectifiers

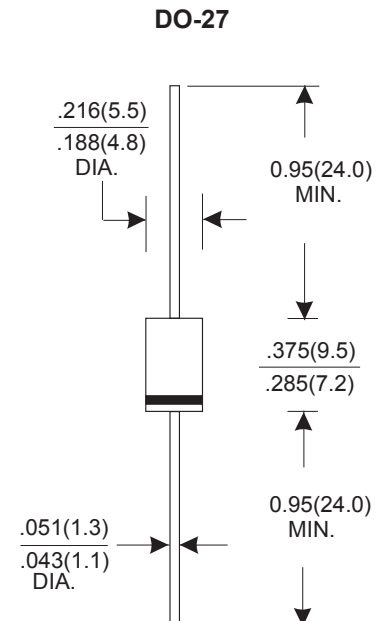
VOLTAGE RANGE 50 to 1000 Volts

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 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Both normal and Pb free product are available:
- Normal: 80~95%Sn, 5~20%Pb
- Pb free: 99 Sn above can meet Rohs environment substance directive request



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=75°C	3.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150							A
Maximum Instantaneous Forward Voltage at 3.0A	1.0							V
Maximum DC Reverse Current Ta=25°C	5.0							μA
at Rated DC Blocking Voltage Ta=100°C	500							μA
Typical Junction Capacitance (Note 1)	40							pF
Typical Thermal Resistance RθJA (Note 2)	30							°C/W
Operating and Storage Temperature Range Tj, Tstg	-65 — +150							°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

RATING AND CHARACTERISTIC CURVES

1N5400~1N5408

FIG.1-TYPICAL FORWARD CHARACTERISTICS

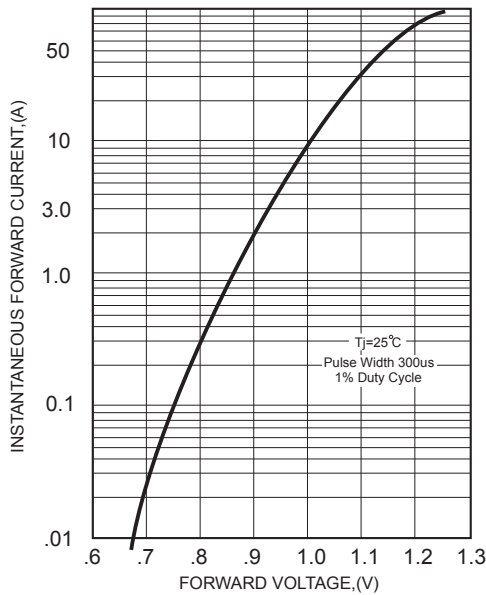


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

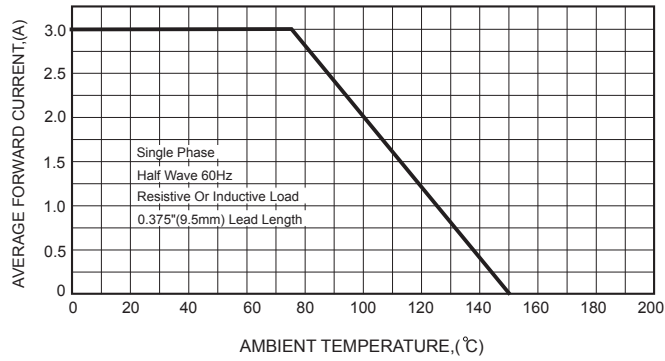


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

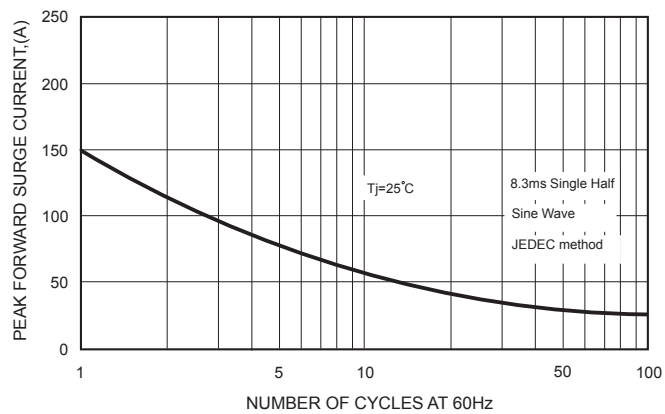


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

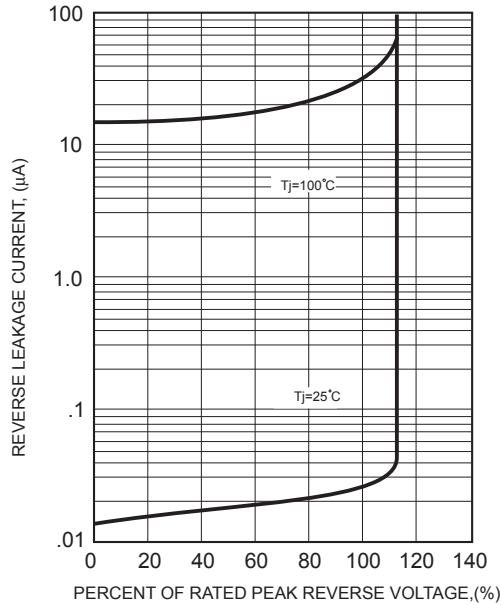
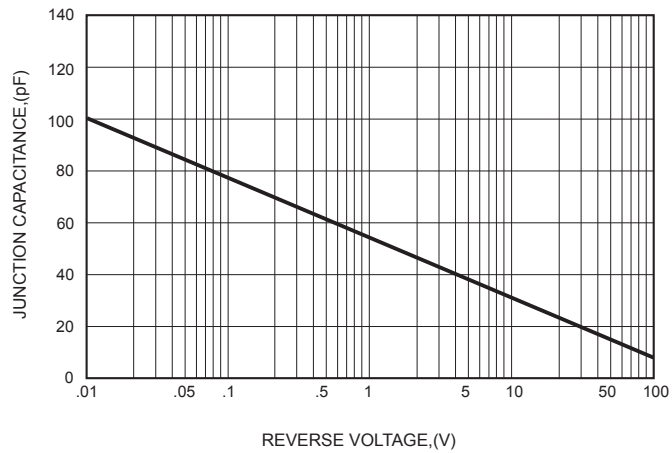
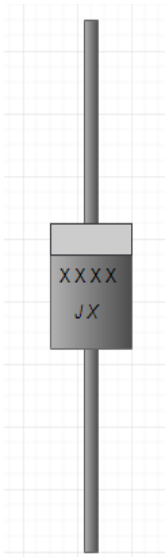


FIG.5-TYPICAL JUNCTION CAPACITANCE



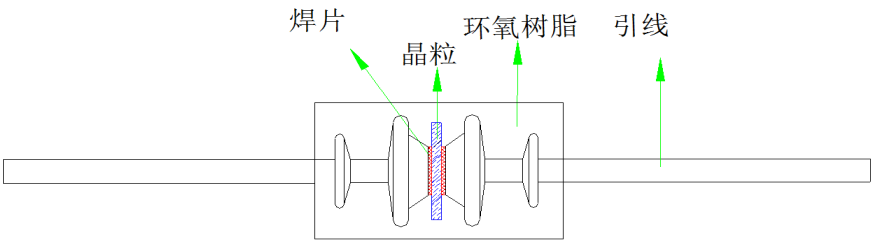
Marking 、 structure and packaging illustration

Marking :



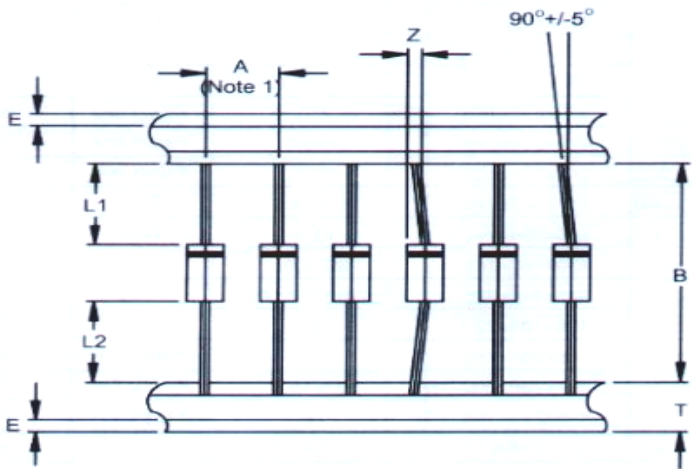
说明 :
JX : 产品LOGO
XXXX位置 : 标记产品型号
色环 : 负极

Structure :



Packaging :

编带



项目	代码	标准 (MM)
材料间距	A	10.0±0.5MM
编带内间距	B	52.4±1.5MM
胶体排列	Z	1.20 MAX
胶带宽度	T	6±0.4
胶带撮位	E	0.8 MAX
引线 & 胶带 间距	L1-L2	1.0 MAX

包装

Package Type 封装形式	Units 包装数量				Dimension 包装尺寸 (unit: mm ³)	
	Reels/Inner Box 只/卷	Units/Inner Box 管/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
DO-27	1250	1250	10	12500	255*75*135	400*280*305