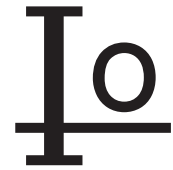


BY251 THRU BY255

3.0 AMP SILICON RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Lead Free Finish/RoHS Compliant

MECHANICAL DATA

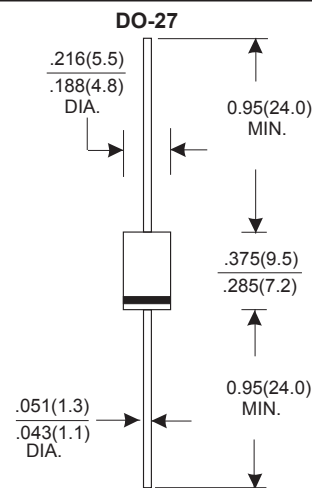
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.04 grams

VOLTAGE RANGE

200 to 1300 Volts

CURRENT

3.0 Amperes



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	BY251	BY252	BY253	BY254	BY255	UNITS
Maximum Recurrent Peak Reverse Voltage	200	400	600	800	1300	V
Maximum RMS Voltage	140	280	420	560	910	V
Maximum DC Blocking Voltage	200	400	600	800	1300	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	50					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 (BY251 THRU BY255)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

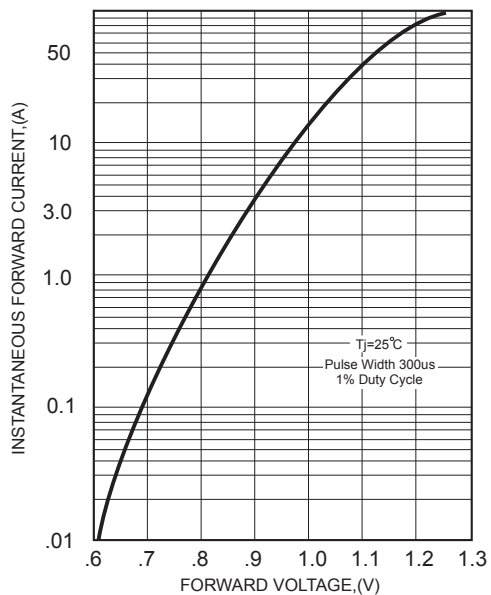


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

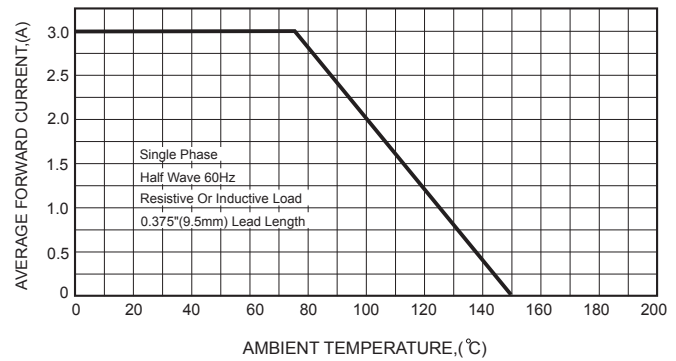


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

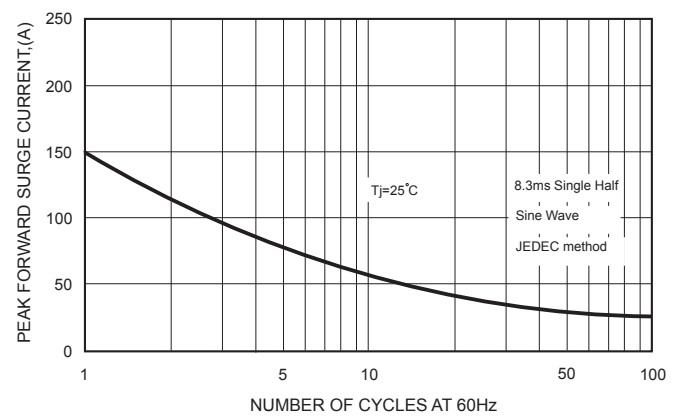


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

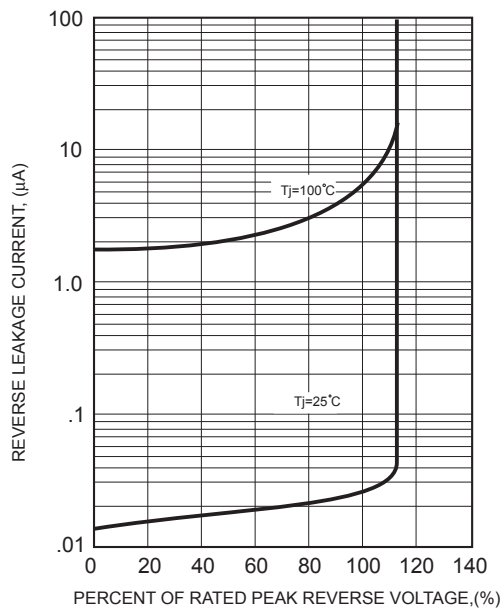
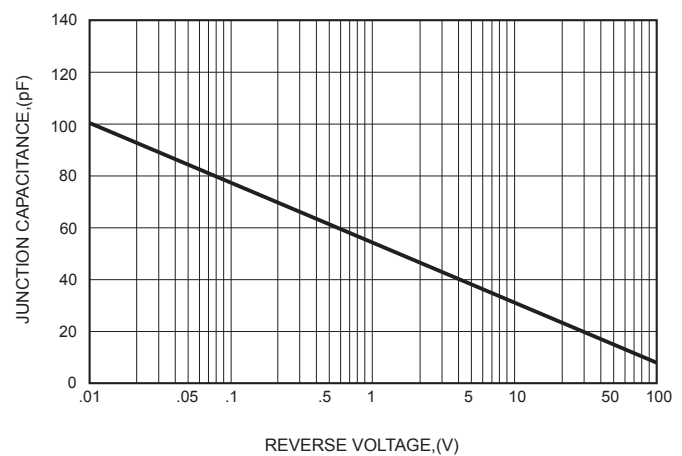
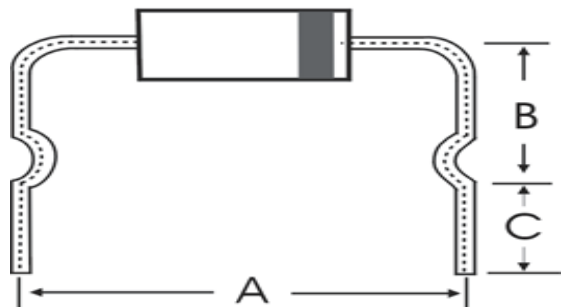


FIG.5-TYPICAL JUNCTION CAPACITANCE



DO-27



附圖尺寸

圖號	MK337
A	17.0 ±1.0MM
B	15.0 ±1.0MM
C	3.5 ±0.5MM

UNLESS OTHERWISE SPECIFIED LIMITS ARE : ANGULAR ±0°30' .0 ±.10 .00 ±.05 .000 ±.01			TITLE: 附圖2				
			MAT'L:		QTY: 1	FINISH: 2017/12/20	
			UNIT: mm		SCALE:	SH'T: 1 OF 1	
DRAWN	CHECKED	APPROVED	DWG. NO.: DIODE-EGO1			A4	REV: B
韋小梅		劉偉					