Shanghai Sinble Electronics Co.,Ltd

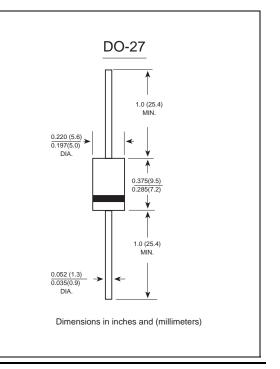
BY251~BY255 3.0Amp Silicon Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-27 molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight : 0.04 ounce, 1.10 grams



Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	BY251	BY252	BY253	BY254	BY255	UNITS
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	800	1300	VOLTS
Maximum RMS voltage	VRMS	140	280	420	560	910	VOLTS
Maximum DC blocking voltage	VDC	200	400	600	800	1300	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A=75^{\circ}C$	I(AV)	3.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	150					Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.1					Volts
Maximum DC reverse currentTA=25℃at rated DC blocking voltageTA=100℃	IR	10.0 500					μΑ
Typical junction capacitance (NOTE 1)	Сл	30.0					pF
Typical thermal resistance (NOTE 2)	Reja	20.0					°C/W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175					°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted