

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BY251 THRU BY255

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94V-0 rated flame retardant

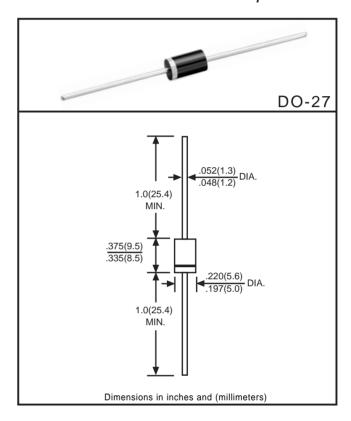
* Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

* Mounting position: Any
* Weight: 1.18 gram approx.

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, derate current by 20%.



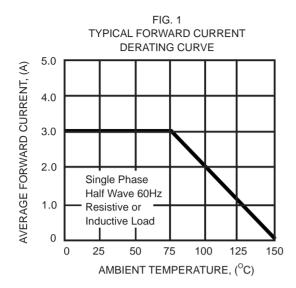
		SYMBOL	BY251	BY252	BY253	BY254	BY255	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	200	400	600	800	1300	Volts
Maximum RMS Voltage		Vrms	140	280	420	560	910	Volts
Maximum DC Blocking Voltage		VDC	200	400	600	800	1300	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T _A = 75°C		lo	3.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		lғsм	200					Amps
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	1.1					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25°C	l _R			5.0			
	@ T _A =100°C		500					μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T∟ = 55°C		IIX	30				да широ	
Typical Junction Capacitance (Note 1)		С	40				pF	
Typical Thermal Resistance (Note 2)		R _θ J A	30					°C/W
Operating and Storage Temperature Range		Т _J ,Тsтg		-55 to +150				°C

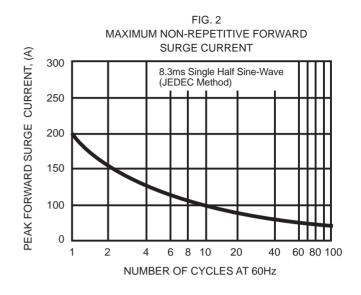
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

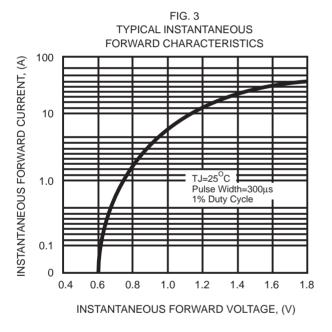
Note 2: Typical thermal resistance from junction to ambient.

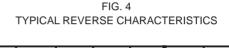
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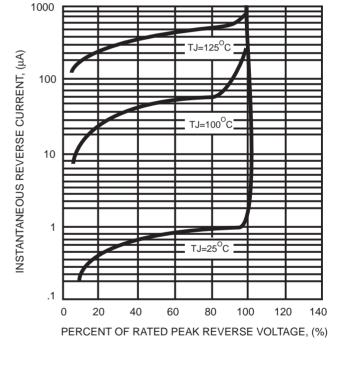
RATING AND CHARACTERISTIC CURVES (BY251 THRU BY255)

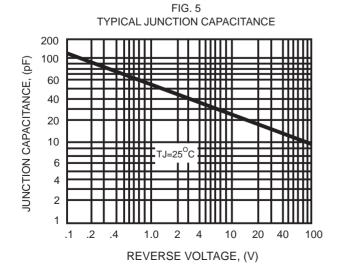












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