

GP02-20 THRU GP02-40

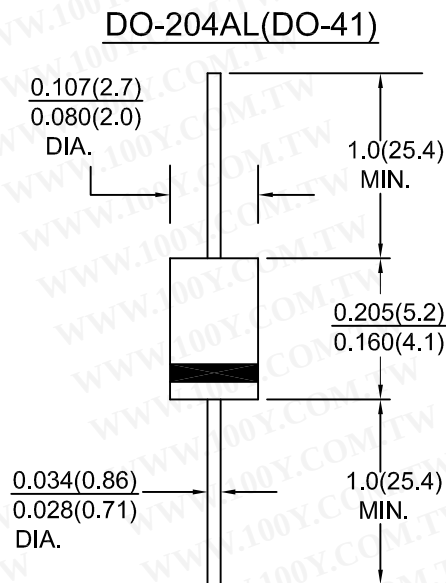
HIGH VOLTAGE SILICON RECTIFIER

FEATURES:

- Molded case feature for auto Insertion
- High current capability
- Low leakage current
- High surge capability
- High temperature soldering:
250°C /10 second/0.375"(9.5mm) lead length
at 5 lbs tension

MECHANICAL DATA

Case: Molded with UL-94 Class V-0 recognized
flame retardant epoxy
Terminals: Plated axial solderable per
MIL-STD-750, Method 2026
Polarity: Color band denotes cathode
Mounting Position : Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

Characteristic	Symbol	GP 02-20	GP 02-25	GP 02-30	GP 02-35	GP 02-40	Units
Maximum recurrent peak reverse voltage	V _{RRM}	2000	2500	3000	3500	4000	Volts
Maximum RMS voltage	V _{RMS}	1400	1750	2100	2450	2800	Volts
Maximum DC voltage	V _{DC}	2000	2500	3000	3500	4000	Volts
Maximum average forward rectified current at Ta=55 °C	I _O	0.2					Amps
Peak forward surge current,8.3ms single half sine-wave auperimposed on rated load(JEDEC Method)	I _{FSM}	25					Amps
Maximum instantaneous forward voltage drop per leg at 0.2A	V _F	3.0			5.0		Volts
Maximum DC reverse current Ta=25 °C	I _R	5.0					μ A
Maximum DC blocking voltage Ta=100 °C		50.0					
Typical Junction Capacitance (NOTE 1)	C _J	3.0					PF
Typical thermal resistance (NOTE 2)	R _{th JA}	130					°C/W
Operating Junction and storage temperature range	T _J , T _{stg}	-55 to +150					°C

NOTE :

1. Measured at 1 MHZ and applied reverse voltage of 4.0 volts

2. Thermal resistance from junction to ambient on 0.375"(9.5mm) lead length p.c.board mounted

RATINGS AND CHARACTERISTIC CURVES GP02-20 THRU GP02-40

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