

# GP02-20                      THRU                      GP02-40

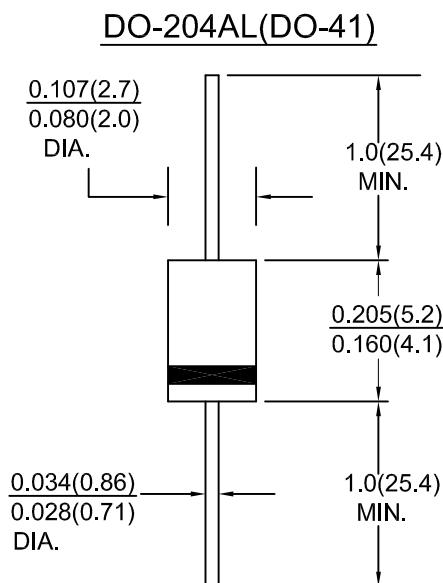
## HIGH VOLTAGE SILICON RECTIFIER

### 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 <sub>RRM</sub>	2000	2500	3000	3500	4000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	1400	1750	2100	2450	2800	Volts
Maximum DC voltage	V <sub>DC</sub>	2000	2500	3000	3500	4000	Volts
Maximum average forward rectified current at T <sub>a</sub> =55 °C	I <sub>(AV)</sub>	0.2					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	25					Amps
Maximum instantaneous forward voltage drop per leg at 0.2A	V <sub>F</sub>	3.0			5.0		Volts
Maximum DC reverse current	I <sub>R</sub>	5.0					μ A
Maximum DC blocking voltage		50.0					
Typical Junction Capacitance (NOTE 1)	C <sub>J</sub>	3.0					PF
Typical thermal resistance (NOTE 2)	R <sub>th JA</sub>	130					°C/W
Operating Junction and storage temperature range	T <sub>J</sub> , T <sub>stg</sub>	-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

