1N4001G THRU 1N4007G, BY133G

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1300 Volts Forward Current - 1.0 Ampere

Features

- Low forward voltage drop
- High Surge current capability

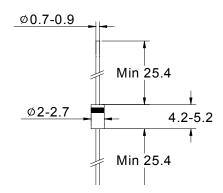
Mechanical Data

- Case: Molded plastic, DO-41
- Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

• Polarity: Color band denotes cathode end

• Mounting Position: Any



DO-41

Dimensions in mm

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbol	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	BY 133G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1300	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	910	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	1300	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A = 75$ °C	I _(AV)	1								Α
Peak Forward Surge Current, 8.3ms single half sine-wave Superimposed on rated load (JEDEC Method)	I _{FSM}	30								А
Maximum forward Voltage at 1A DC and 25 °C	V _F	1.1								V
$ \begin{array}{ll} \text{Maximum Reverse Current} & T_{\text{A}} = 25 \ ^{\circ}\text{C} \\ \text{at Rated DC Blocking Voltage} & T_{\text{A}} = 100 \ ^{\circ}\text{C} \\ \end{array} $	I _R	5 50								μΑ
Typical Junction Capacitance 1)	CJ	15								pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	50								°C/W
Typical Thermal Resistance 2)	$R_{\theta JL}$	25								°C/W
Operating and Storage Temperature range	T_J, T_{stg}	-55 to +150								°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 volts.





listed on the Hong Kong Stock Exchange, Stock Code: 724)

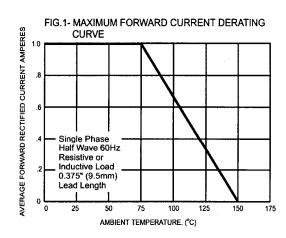


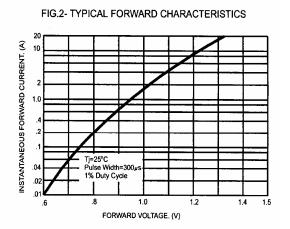


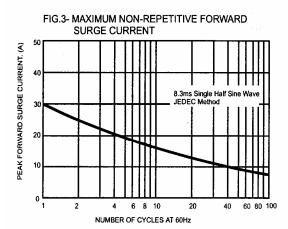


²⁾ Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length P.C.B. mounted.

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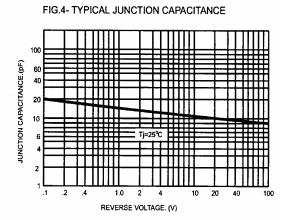
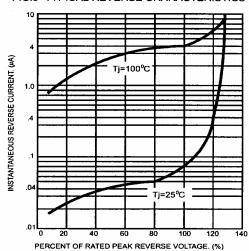


FIG.5- TYPICAL REVERSE CHARACTERISTICS





SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)







Dated: 07/12/2005 H