

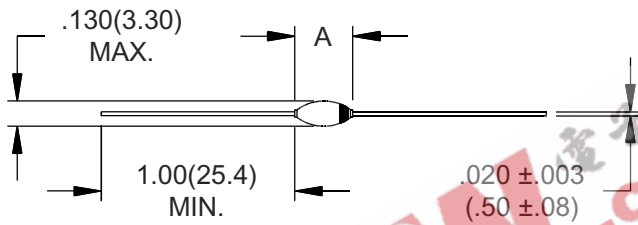
Spice Model



M160SG



| Part Number | Working Reverse Voltage (V _{rwm}) | Average Rectified Current (I _o) | | Reverse Current @ V _{rwm} (I _r) | | Forward Voltage (V _f) | | 1 Cycle Surge Current tp=8.3ms (I _{fsm}) | Repetitive Surge Current (I _{frm}) | Reverse Recovery Time (3) (T _{rr}) | Thermal Impedance J-L | | | Junction Cap. @50VDC @ 1kHz (C _j) |
|-------------|--|--|----------|---|-------|--------------------------------------|----|--|---|--|--------------------------|--------|--------|--|
| | | 55°C(1) | 100°C(2) | 25°C | 100°C | 25°C | | 25°C | 25°C | 25°C | L=.000 | L=.125 | L=.250 | 25°C |
| | Volts | mAmps | mAmps | µA | µA | Volts | mA | Amps | Amps | ns | °C/W | °C/W | °C/W | pF |
| M160SG | 16000 | 10 | 5 | 0.1 | 10 | 35 | 10 | .5 | 0.1 | 3000 | 33 | 45 | 65 | 0.5 |



| Part | A |
|--------|-----------------|
| M25SG | .300(7.62) MAX. |
| M50SG | |
| M100SG | |
| M160SG | .350(8.89) MAX |

| | | | |
|------------|--------------------------------|----------|-------|
| IS | Reverse leakage current | 1.00E-07 | Amps |
| N | Emission coefficient | 46.25 | |
| T | Temperature | 25 | C |
| RS | Diode series resistance | 2.5 | Ohm |
| TT | Transit time | 3000 | nS |
| CJ0 | Zero-bias junction capacitance | 0.45 | pF |
| VJ | Bulk junction potential | 28.44 | Volts |
| M | Grading coefficient | 0.5 | |
| EG | Energy-band gap | 1.11 | Volts |
| XTI | Temperature coefficient | 3 | |
| KF | Flicker-noise coefficient | 0 | |
| AF | Flicker-noise exponent | 1 | |
| FC | Coefficient for capacitance | 0.5 | |
| BV | Diode breakdown voltage | 20000 | Volts |
| IBV | Diode breakdown current | 100 | uAmps |



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