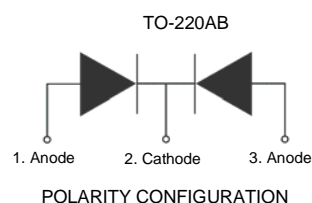
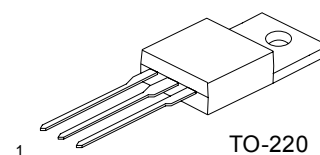


20A SCHOTTKY BARRIER DIODE

Dual High Voltage Schottky Rectifier

Specification Features:

- High Voltage Wide Range Selection, 35V, 45V, 50V & 60V
- High Switching Speed Device
- Low Forward Voltage Drop
- Low Power Loss and High Efficiency
- Guard Ring for Over-voltage Protection
- High Surge Capability
- RoHS Compliant
- Matte Tin(Sn) Lead Finish
- Terminal Leads Surface is Corrosion Resistant and can withstand to 260°C Wave Soldering or per MIL-STD-750, Method 2026.



DEVICE MARKING DESIGNATION:

Line 1 & 2= Device Name
 Line 3 = Datecode
 Line 4 = Polarity

Schottky Rectifiers

Absolute Maximum Ratings*

$T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Value | | | | Units |
|-------------|--|-------------|--------|--------|--------|------------------|
| | | 2035CT | 2045CT | 2050CT | 2060CT | |
| V_{RRM} | Maximum Repetitive Reverse Voltage | 35 | 45 | 50 | 60 | V |
| $I_{F(AV)}$ | Average Rectified Forward Current .375" lead length @ $T_A = 135^\circ\text{C}$ | 20 | | | | A |
| I_{FSM} | Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave | 150 | | | | A |
| T_{stg} | Storage Temperature Range | -65 to +175 | | | | $^\circ\text{C}$ |
| T_J | Operating Junction Temperature | -65 to +150 | | | | $^\circ\text{C}$ |

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics

| Symbol | Parameter | Value | Units |
|-----------------|---|-------|--------------------|
| P_D | Power Dissipation | 2.0 | W |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient * | 60 | $^\circ\text{C/W}$ |
| $R_{\theta JL}$ | Thermal Resistance, Junction to Lead | 2.0 | $^\circ\text{C/W}$ |

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Device | | | | Units |
|-----------|--|--------|--------|--------|--------|-------|
| | | 2035CT | 2045CT | 2050CT | 2060CT | |
| V_F | Forward Voltage $I_F = 10\text{ A}$, $T_C = 25^\circ\text{C}$ $I_F = 10\text{ A}$, $T_C = 125^\circ\text{C}$ $I_F = 20\text{ A}$, $T_C = 25^\circ\text{C}$ $I_F = 20\text{ A}$, $T_C = 125^\circ\text{C}$ | - | - | 0.80 | - | V |
| | | 0.57 | 0.84 | 0.70 | 0.95 | V |
| | | 0.84 | 0.72 | 0.95 | 0.85 | V |
| | | 0.72 | 0.85 | 0.85 | 0.85 | V |
| I_R | Reverse Current @ rated V_R $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$ | 0.1 | 0.1 | 0.15 | 0.15 | mA |
| | | 15 | 15 | 150 | 150 | mA |
| I_{RRM} | Peak Repetitive Reverse Surge Current 2.0 us Pulse Width, $f = 1.0\text{ KHz}$ | 1.0 | 1.0 | 0.5 | 0.5 | A |