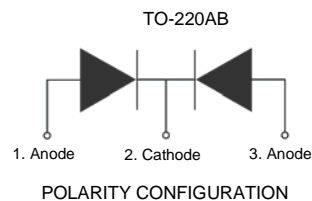
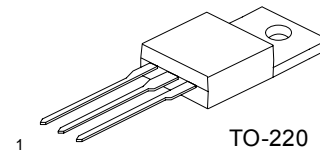




30A SCHOTTKY BARRIER DIODE Dual High Voltage Schottky Rectifier

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
		3035CT	3045CT	3050CT	3060CT	
V_{RRM}	Maximum Repetitive Reverse Voltage	35	45	50	60	V
$I_{F(AV)}$	Average Rectified Forward Current .375 " lead length @ $T_A = 135^\circ\text{C}$	30				A
I_{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	200				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	1.5	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient *	60	$^\circ\text{C/W}$
$R_{\theta JL}$	Thermal Resistance, Junction to Lead	1.5	$^\circ\text{C/W}$

Electrical Characteristics

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

Symbol	Parameter	Device				Units
		3035CT	3045CT	3050CT	3060CT	
V_F	Forward Voltage $I_F = 15\text{ A}, T_C = 25^\circ\text{C}$ $I_F = 15\text{ A}, T_C = 125^\circ\text{C}$ $I_F = 30\text{ A}, T_C = 25^\circ\text{C}$ $I_F = 30\text{ A}, T_C = 125^\circ\text{C}$	0.84		0.95		V
		0.72		0.85		V
		0.76		0.86		V
		0.69		0.72		V
I_R	Reverse Current @ rated V_R $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	0.1		0.1		mA
		60		60		mA
I_{RRM}	Peak Repetitive Reverse Surge Current 2.0 us Pulse Width, $f = 1.0\text{ KHz}$	2.0		2.0		A