

- Low-Voltage, High-Frequency Inverters
- · Free Wheeling and Polarity Protection

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Features

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addi-tion, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value				Units
Symbol	Falameter		1545CT	1550CT	1560CT	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	35	45	50	60	V
I _{F(AV)}	Average Rectified Forward Current .375 inch Lead Length at $T_A = 105^{\circ}C$	15			А	
I _{FSM}	Non-repetitive Peak Forward Surge Current1508.3 ms Single Half-Sine-Wave150			А		
T _{STG}	Storage Temperature Range -65 to +175			°C		
TJ	Operating Junction Temperature Range -65 to +			+150		°C

Thermal Characteristics

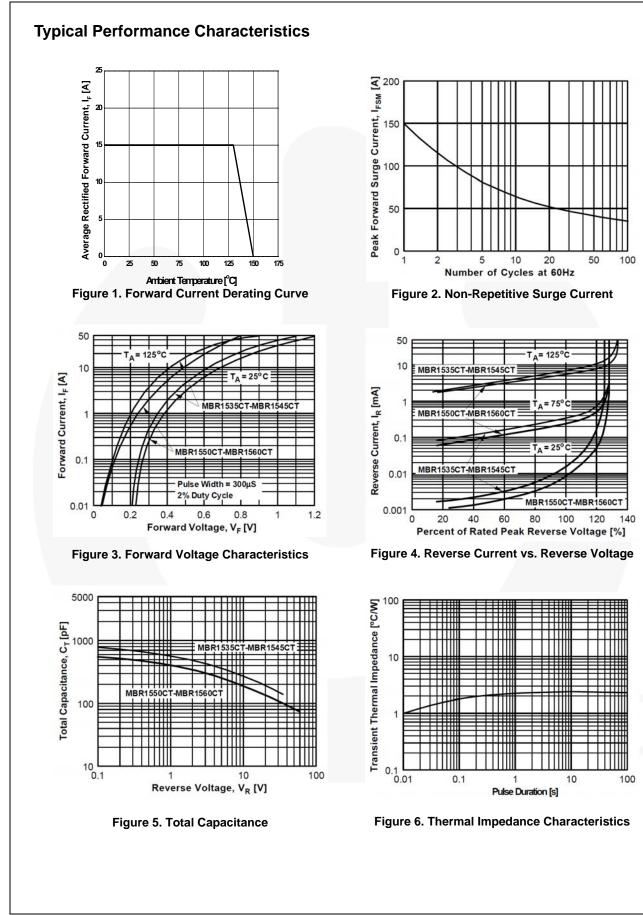
Symbol	Parameter	Value	Units
PD	Power Dissipation	41.7	W
R _{θJA}	Thermal Resistance, Junction to Ambient	60	°C/W
R _{θJL}	Thermal Resistance, Junction to Lead	3.0	°C/W

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Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter		Value				Units	
			1535CT	1545CT	1550CT	1560CT	Units	
V _F		$I_F = 7.5 \text{ A}, T_C = 25^{\circ}\text{C}$			0.75		V	
	Maximum Forward Voltage, per Leg	$I_F = 7.5 \text{ A}, T_C = 125^{\circ}\text{C}$	0.57		0.65			
		$I_{\rm F} = 15 \text{ A}, \text{ T}_{\rm C} = 25^{\circ}\text{C}$	0.84					
		I _F = 15 A, T _C = 125°C	0.72					
I _R	Maximum Reverse Current	$T_A = 25^{\circ}C$	0	.1	1.	.0	mA	
	at Rated V _{RRM} , per Leg	T _A = 125°C	15	5.0	50).0	ШA	
I _{RRM}	Peak Repetitive Reverse Surge Current, per Leg 2.0 μ s Pulse Width, f = 1.0 kHz		1.0		0.5		A	



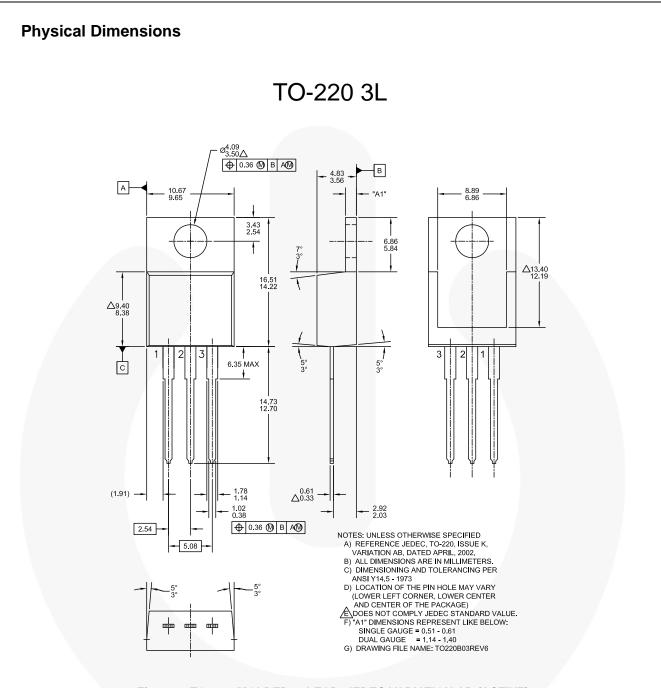


Figure 7. TO-220, MOLDED, 3-LEAD, JEDEC VARIATION AB (ACTIVE)

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15 A Schottky Barrier Rectifiers

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