

• Free Wheeling and Polarity Protection

FAIRCHILD



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
	Falameter		2545CT	2550CT	2560CT	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	35	45	50	60	V
I _{F(AV)}	Average Rectified Forward Current25.375 inch Lead Length at $T_A = 130^{\circ}C$ 25			A		
I _{FSM}	Non-Repetitive Peak Forward Surge Current2008.3 ms Single Half-Sine-Wave200				А	
T _{STG}	Storage Temperature Range -65 to +175		°C			
TJ	Operating Junction Temperature Range -65 to +150			°C		

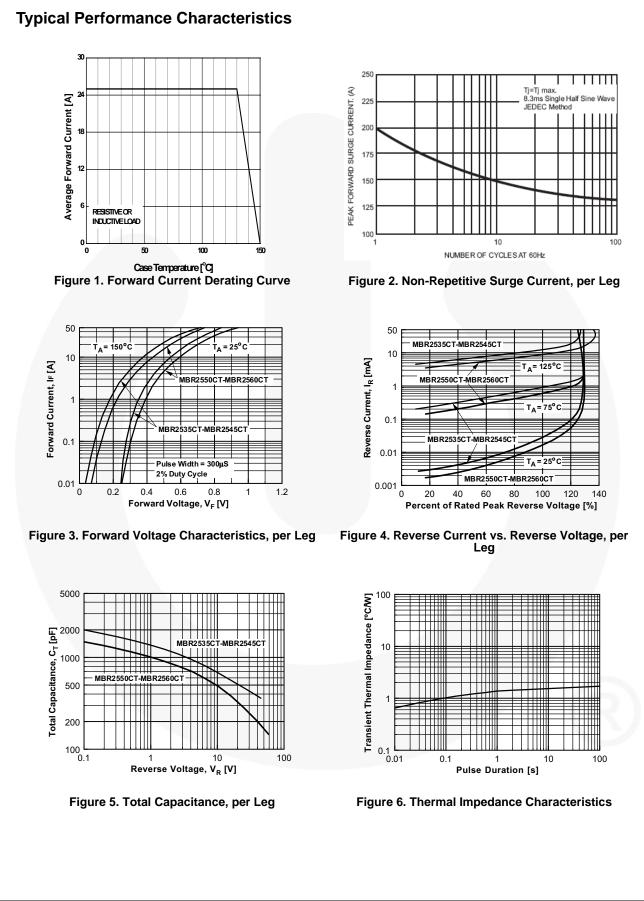
Thermal Characteristics

Symbol	Parameter	Value	Units
PD	Power Dissipation	2.0	W
R _{θJA}	Thermal Resistance, Junction to Ambient	60	°C/W
$R_{ extsf{ heta}JL}$	Thermal Resistance, Junction to Lead	1.5	°C/W

Electrical Characteristics

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

Symbol	Parameter		Value				Units
Symbol			2535CT	2545CT	2550CT	2560CT	Units
V _F	Maximum Forward Voltage, per Leg	$I_F = 12.5A, T_C = 25^{\circ}C$			0.75		V
		$I_F = 12.5A, T_C = 125^{\circ}C$			0.65		
		$I_{F} = 25A, T_{C} = 25^{\circ}C$	0.82				
		$I_{F} = 25A, T_{C} = 125^{\circ}C$	0.73				
I _R	Maximum Reverse Current at Rated V _{RRM} , per Leg	$T_A = 25^{\circ}C$	0.2		0.2		mA
		$T_A = 125^{\circ}C$	15.0		10.0		
I _{RRM}	Peak Repetitive Reverse Surge Current, per Leg 2.0 μ s Pulse Width, f = 1.0 kHz		1.0		0.5		А
C _j	Typical Junction Capacitance, per Leg		600		46	60	pF



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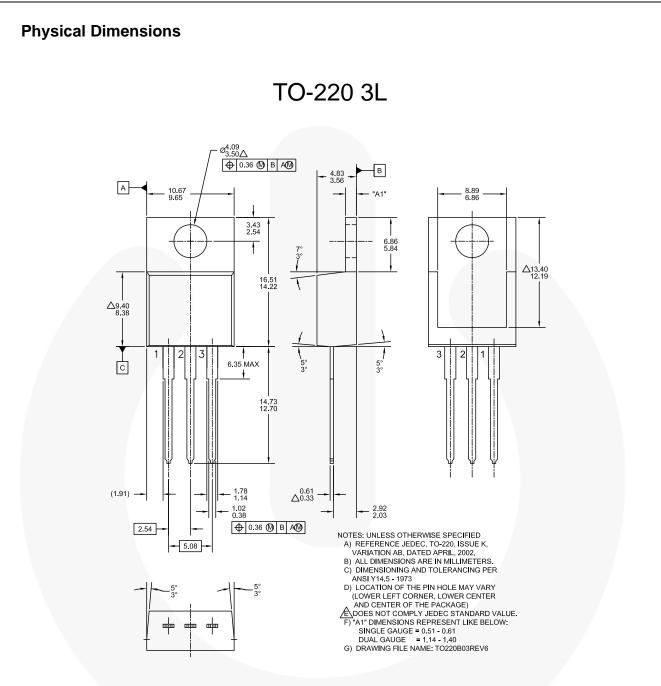


Figure 7. TO-220, MOLDED, 3-LEAD, JEDEC VARIATION AB (ACTIVE)

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25 A Schottky Barrier Rectifiers

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➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

- > Sales :
 - Direct +86 (21) 6401-6692
 - Email amall@ameya360.com
 - QQ 800077892
 - Skype ameyasales1 ameyasales2

> Customer Service :

Email service@ameya360.com

> Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com