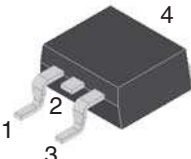
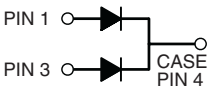


## 25 Amp. Surface Mount Schottky Barrier Rectifiers

<p><b>D<sup>2</sup>PAK</b></p>  	<p><b>Voltage</b> 45 to 150 V</p> <p><b>Current</b> 25 A</p> <ul style="list-style-type: none"> <li>For surface mounted application</li> <li>Ideal for automated pick &amp; place</li> <li>Low power loss, high efficiency</li> <li>High current capability, low VF</li> <li>High reliability</li> <li>Epitaxial construction</li> <li>Guard-ring for transient protection</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>Cases: D<sup>2</sup>PAK molded plastic</li> <li>Epoxy: UL 94V-0 rate flame retardant</li> <li>Terminals: Pure tin plated, lead free. solderable per MIL-STD-202, Method 208 guaranteed</li> <li>Polarity: As marked</li> <li>High temperature soldering guaranteed: 260 °C/10 seconds at terminals</li> <li>Weight: 1.70 grams</li> </ul>
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### Absolute Maximum Ratings, according to IEC publication No. 134

		<b>MBRS 2545CT</b>	<b>MBRS 2560CT</b>	<b>MBRS 25100CT</b>	<b>MBRS 25150CT</b>
$V_{RRM}$	Maximum recurrent peak reverse voltage (V)	45	60	100	150
$V_{RMS}$	Maximum RMS voltage (V)	31	42	70	105
$V_{DC}$	Maximum DC blocking voltage (V)	45	60	100	150
$I_{F(AV)}$	Maximum average forward rectified current See Fig.	25 A			
$I_{FSM}$	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (Jedec Method)	200 A			
$T_j$	Operating junction temperature range	- 65 to + 150 °C			
$T_{stg}$	Storage temperature range	- 65 to + 175 °C			

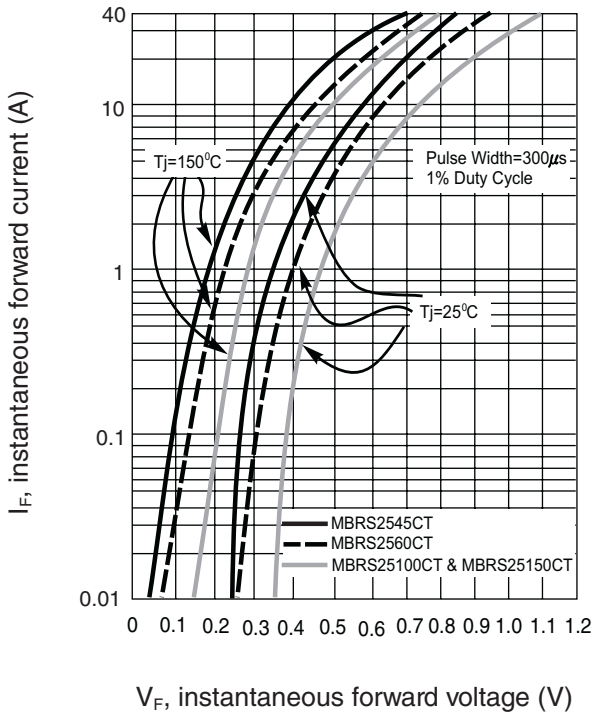
### Electrical Characteristics

		<b>MBRS 2545CT</b>	<b>MBRS 2560CT</b>	<b>MBRS 25100CT</b>	<b>MBRS 25150CT</b>	
$V_F$	Max. forward voltage drop at $I_F = 12.5$ A (Note 1)	$T_c = 25$ °C	0.82 V	0.75 V	0.85 V	0.95 V
		$T_c = 125$ °C	0.73 V	0.65 V	0.75 V	0.92 V
	Max. forward voltage drop at $I_F = 25$ A	$T_c = 25$ °C	--	--	0.92 V	1.02 V
		$T_c = 125$ °C	--	--	0.88 V	0.98 V
$I_R$	Maximum D.C. Reverse Current @ $T_c = 25$ °C at Rated DC Blocking Voltage @ $T_c = 125$ °C (Note 1)	0.2 mA		0.1 mA		
		15 mA	10 mA	7.5 mA	5.0 mA	
$R_{thj-C}$	Typical Thermal Resistance (Note 2)	1.0 °C/W				

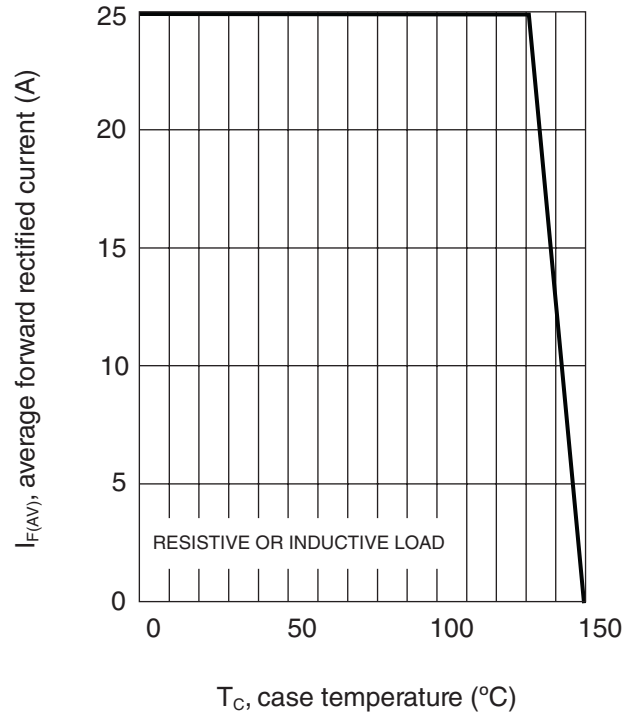
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle  
 2. Thermal Resistance from Junction to Case Per Leg

**25 Amp. Schottky Barrier Rectifier**

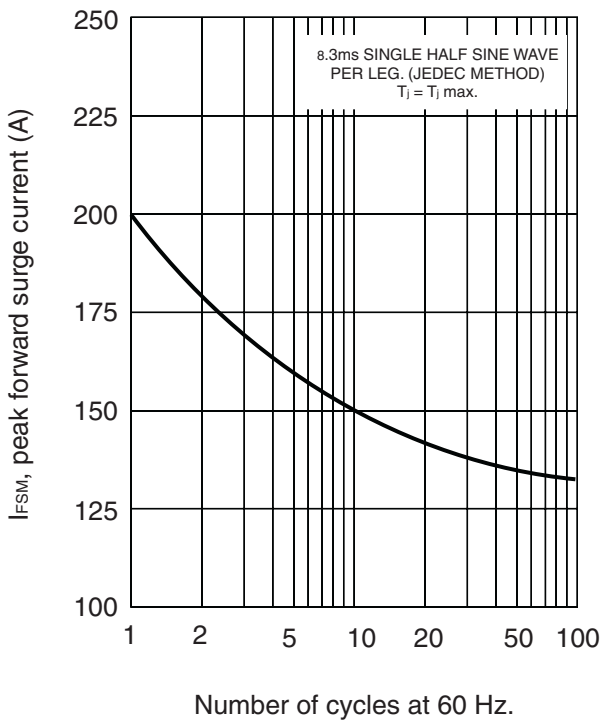
TYPICAL FORWARD CHARACTERISTIC PER LEG



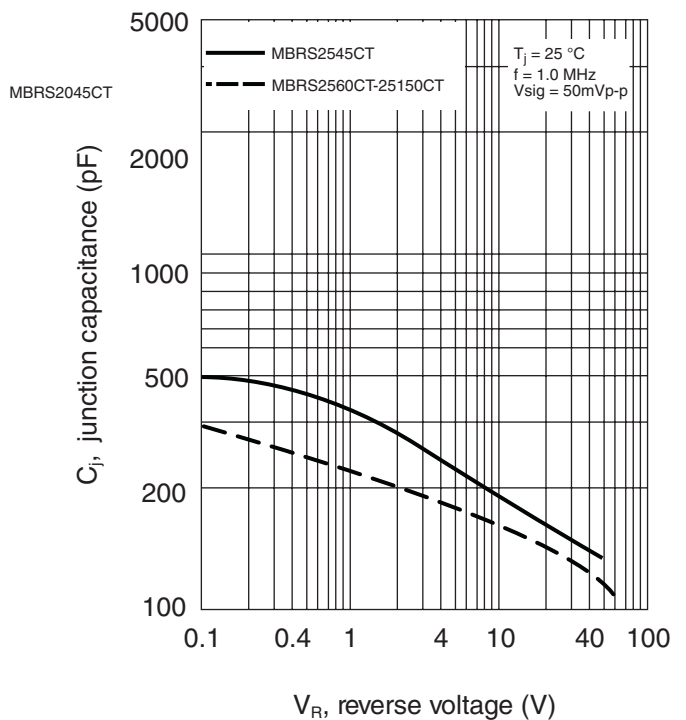
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

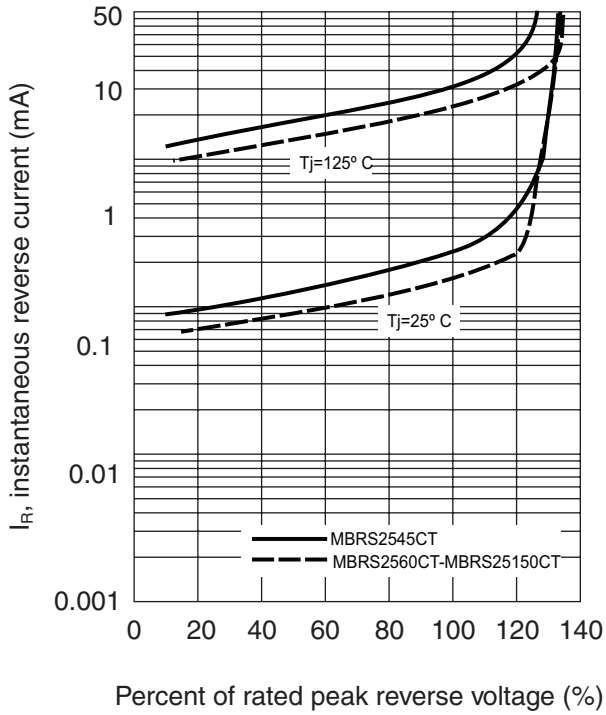


TYPICAL JUNCTION CAPACITANCE PER LEG

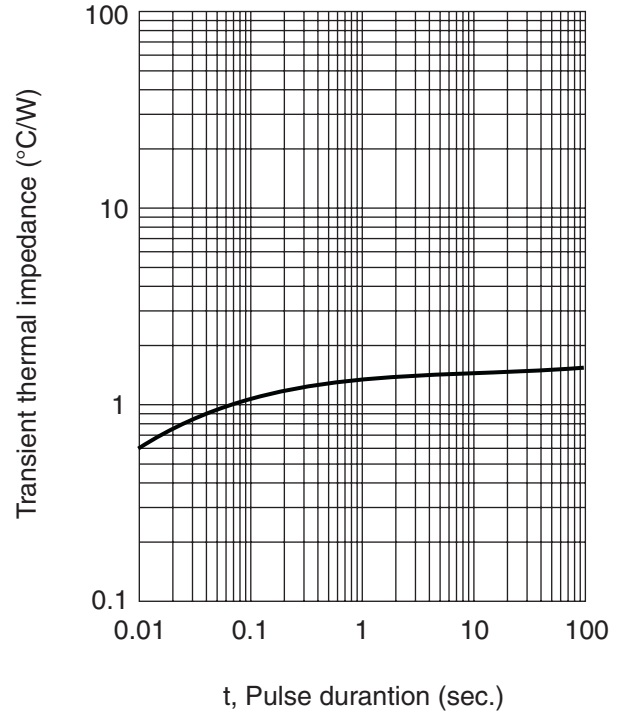


**25 Amp. Schottky Barrier Rectifier**

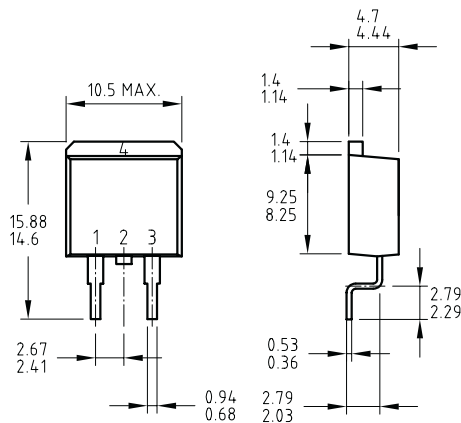
TYPICAL REVERSE CHARACTERISTICS PER LEG



TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG



**PACKAGE MECHANICAL DATA D<sup>2</sup>PAK**



Dimensions in mm.