



# Vincotech

<b>flowPIM E2</b>		<b>1200 V / 35 A</b>
<b>Features</b>		<b>flow E2 12 mm housing</b>
<ul style="list-style-type: none"><li>• Trench Fieldstop IGBT4 technology</li><li>• Standard industrial housing</li><li>• Optimized Rth(j-s) with Phase Change Material</li><li>• Built-in NTC</li></ul>		
<b>Target applications</b>		<b>Schematic</b>
<ul style="list-style-type: none"><li>• Industrial Drives</li></ul>		
<b>Types</b>		
<ul style="list-style-type: none"><li>• 10-E212PMA035SC-L188A48Z</li></ul>		











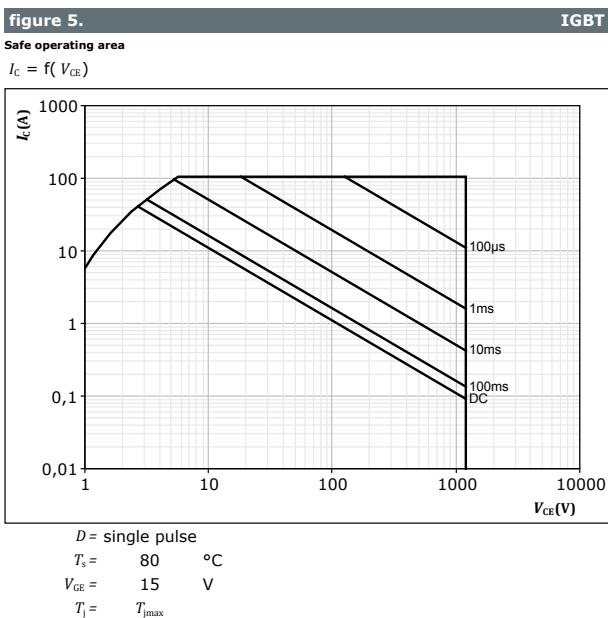








## Inverter Switch Characteristics

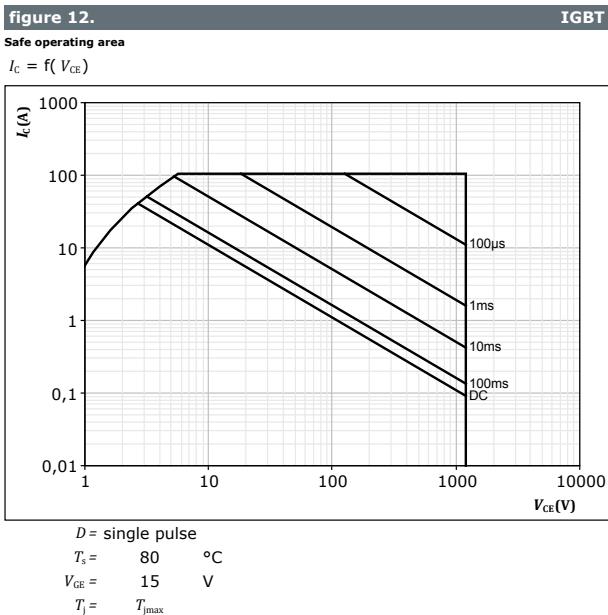








## Brake Switch Characteristics

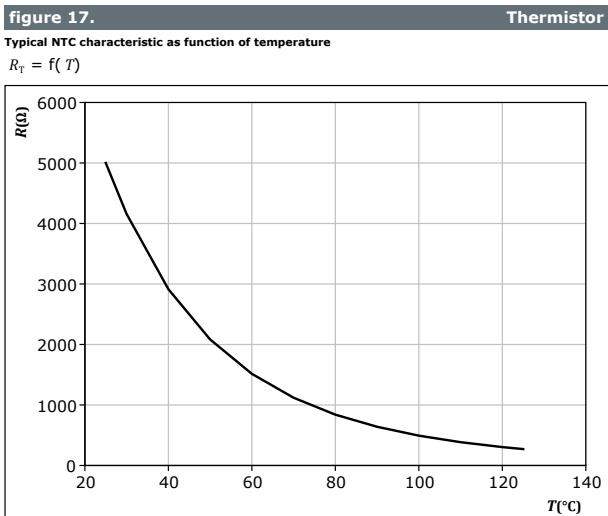








## Thermistor Characteristics



















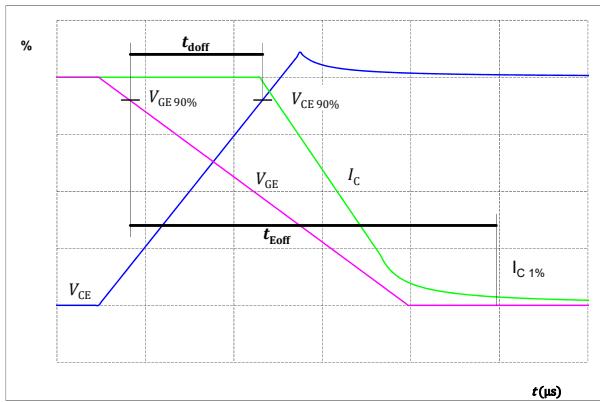


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## Switching Definitions

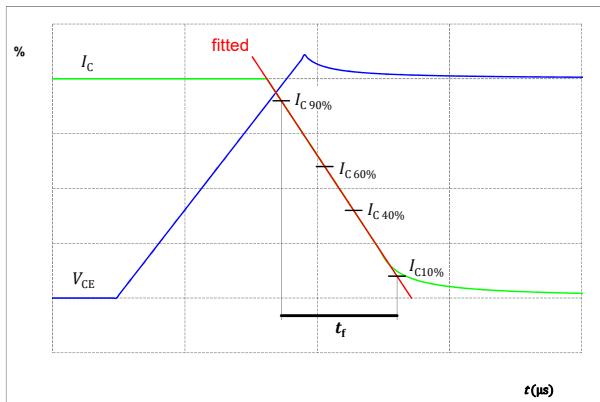
**figure 48.** IGBT

Turn-off Switching Waveforms & definition of  $t_{doff}$ ,  $t_{Eoff}$  ( $t_{Eoff}$  = integrating time for  $E_{off}$ )



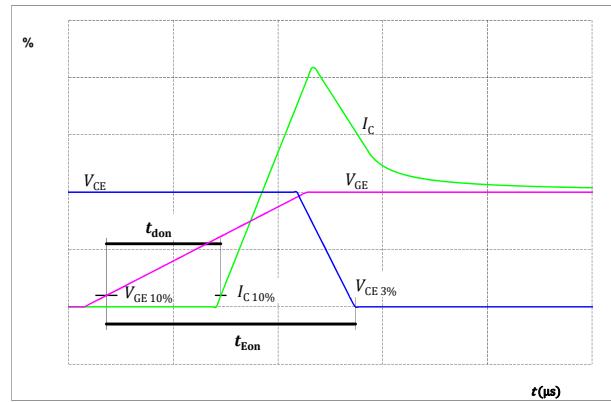
**figure 50.** IGBT

Turn-off Switching Waveforms & definition of  $t_f$



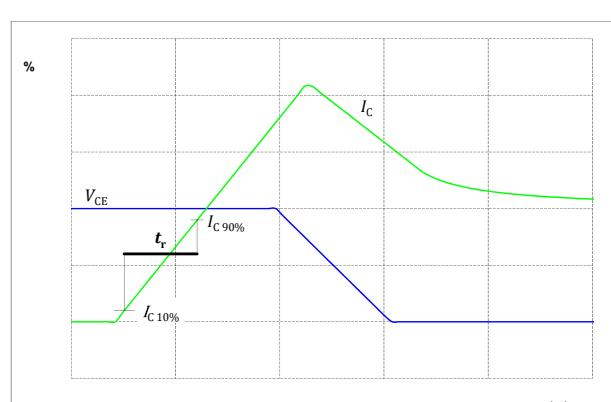
**figure 49.** IGBT

Turn-on Switching Waveforms & definition of  $t_{don}$ ,  $t_{Eon}$  ( $t_{Eon}$  = integrating time for  $E_{on}$ )



**figure 51.** IGBT

Turn-on Switching Waveforms & definition of  $t_r$





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## Switching Definitions

figure 52.

Turn-off Switching Waveforms & definition of  $t_{tr}$

FWD

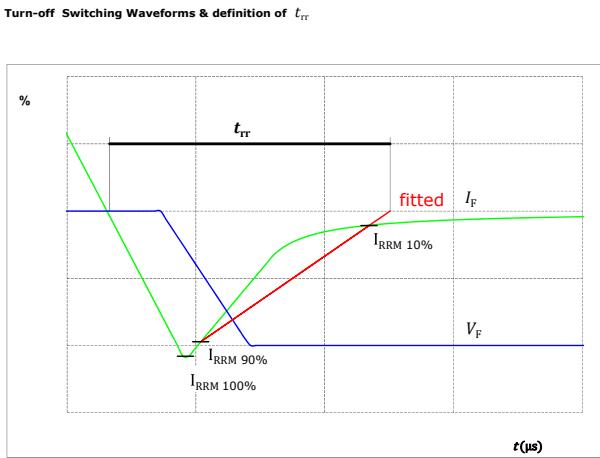
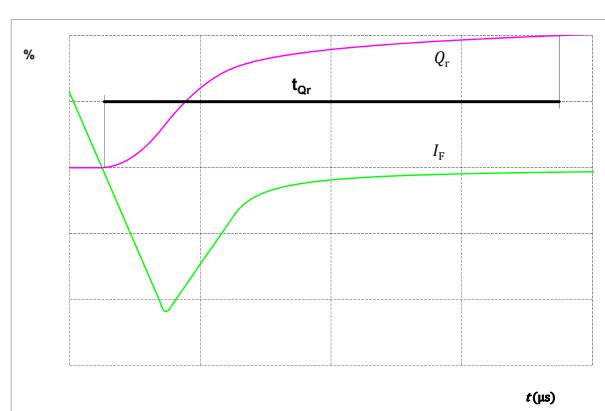


figure 53.

Turn-on Switching Waveforms & definition of  $t_{qr}$  ( $t_{qr}$  = integrating time for  $Q_r$ )

FWD

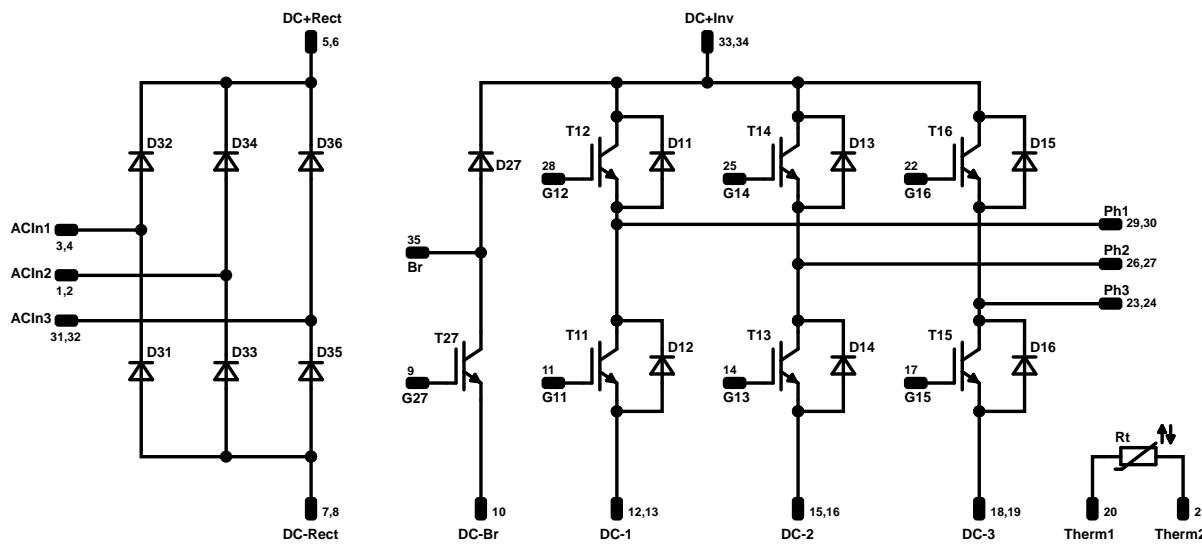






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### Pinout



### Identification

ID	Component	Voltage	Current	Function	Comment
T11, T12, T13, T14, T15, T16	IGBT	1200 V	35 A	Inverter Switch	
D11, D12, D13, D14, D15, D16	FWD	1200 V	35 A	Inverter Diode	
T27	IGBT	1200 V	35 A	Brake Switch	
D27	FWD	1200 V	10 A	Brake Diode	
D31, D32, D33, D34, D35, D36	Rectifier	1600 V	35 A	Rectifier Diode	
Rt	NTC			Thermistor	

