



# AFGHL75T65SQDT

## THERMAL CHARACTERISTICS

Rating	Symbol	Value	Unit
Thermal resistance junction-to-case, for IGBT	$R_{\theta JC}$	0.4	C/W
Thermal resistance junction-to-case, for Diode	$R_{\theta JC}$	0.65	C/W
Thermal resistance junction-to-ambient	$R_{\theta JA}$	40	C/W

## ELECTRICAL CHARACTERISTICS ( $T_J = 25$ )

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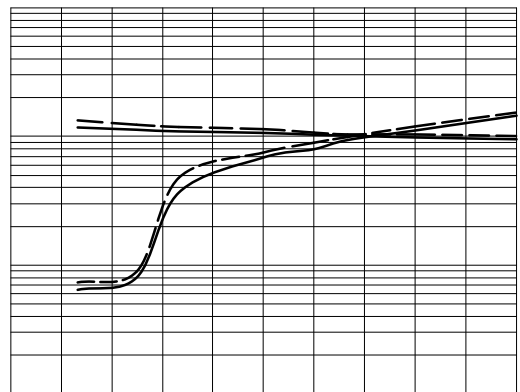
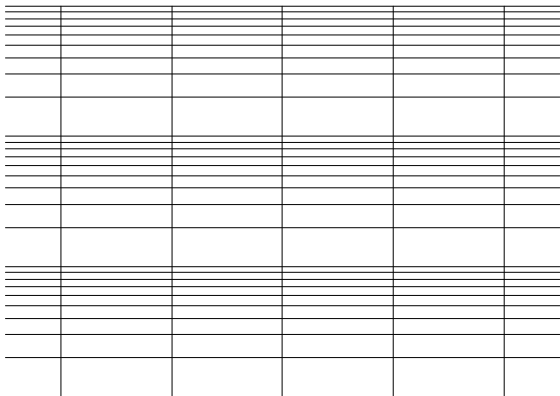
## ELECTRICAL CHARACTERISTICS (T<sub>J</sub> = 25 C unless otherwise noted)

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
<b>SWITCHING CHARACTERISTICS, INDUCTIVE LOAD</b>						
Turn-on delay time	T <sub>C</sub> = 175 C, V <sub>CC</sub> = 400 V, I <sub>C</sub> = 37.5 A, R <sub>G</sub> = 4.7 Ω, V <sub>GE</sub> = 15 V, Inductive Load	t <sub>d(on)</sub>	–	20	–	ns
Rise time		t <sub>r</sub>	–	19	–	
Turn-off delay time		t <sub>d(off)</sub>	–	124	–	
Fall time		t <sub>f</sub>	–	7.7	–	
Turn-on switching loss		E <sub>on</sub>	–	1.52	–	



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## TYPICAL CHARACTERISTICS (continued)











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