

THERMAL CHARACTERISTICS

Parameter	Symbol	Max	Unit
Thermal Resistance Junction-to-Case, for IGBT	$R_{\theta JC}$	0.63	C/W
Thermal Resistance Junction-to-Case, for Diode	$R_{\theta JC}$	1.55	
Thermal Resistance Junction-to-Ambient	$R_{\theta JA}$	40	

ELECTRICAL CHARACTERISTICS ($T_C = 25$ C unless otherwise stated)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit

OFF CHARACTERISTICS

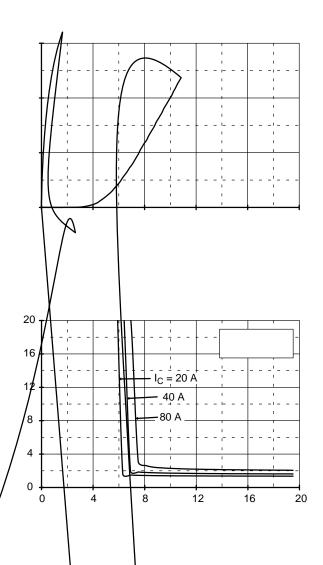
Collector to Emitter Breakdown

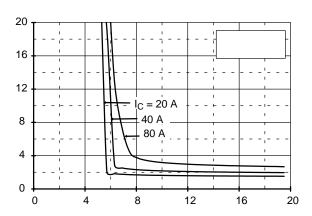
ELECTRICAL CHARACTERISTICS (T_C = 25 C unless otherwise stated) (continued)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
ELECTRICAL CHARACTERISTIC OF THE DIODE (T _J = 25 C unless otherwise stated)						
Reverse Recovery Energy	E _{rec}	$I_F = 20 \text{ A}$ $dIF/dt = 200 \text{ A/}\mu\text{s}, T_C = 25 \text{ C}$	-	22.3	-	μJ
Diode Reverse Recovery Time	t _{rr}		-	131	-	ns
Diode Reverse Recovery Charge	Q _{rr}		-	348	-	nC
Reverse Recovery Energy	E _{rec}	$I_F = 20 \text{ A}$ $dIF/dt = 200A/\mu s, T_C = 175 \text{ C}$	-	100	-	μJ
Diode Reverse Recovery Time	t _{rr}		-	245	-	ns
Diode Reverse Recovery Charge	Q _{rr}		_	961	_	nC

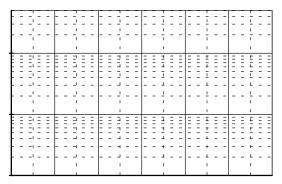
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

TYPICAL CHARACTERISTICS

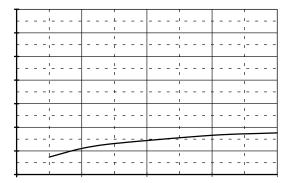




TYPICAL CHARACTERISTICS



TYPICAL CHARACTERISTICS





D²PAK-3 (TO-263, 3-LEAD) CASE 418AJ ISSUE F

DATE 11 MAR 2021

