

10 cm 440

Table 1. THERMAL RESISTANCE MAXIMUM RATINGS

Parameter	Symbol	Max	Unit
Junction-to-Case - Steady State (Note 1)	$R_{ ext{ heta}JC}$	0.52	°C/W
Junction-to-Ambient - Steady State (Note 1)	$R_{\theta JA}$	40	

Table 2. ELECTRICAL CHARACTERISTICS (T_J = 25° C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
OFF CHARACTERISTICS						

Drain-to-Source Breakdown Voltage	V _{(BR)DSS}		650	-	-	V	
Drain-to-Source Breakdown Voltage Temperature Coefficient	V _{(BR)DSS} /T _J	$I_D = 20$ mA, referenced to $25^{\circ}C$					

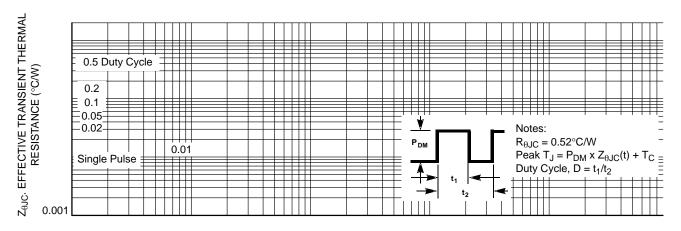
Table 2. ELECTRICAL CHARACTERISTICS ($T_J = 25^{\circ}C$ unless otherwise specified) (continued)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit		
DRAIN SOURCE DIODE CHARACTERISTICS								
Reverse Recovery Time	t _{RR}	V _{GS} = -5/18 V, I _{SD} = 25 A, dI _S /dt = 1000 A/μs	-	19	_	ns		
Reverse Recovery Charge	Q _{RR}		-	99	-	nC		
Reverse Recovery Energy	E _{REC}		-	3.5	-	μJ		
Peak Reverse Recovery Current	I _{RRM}		-	10	-	А		
Charge Time	Та		_	11	_	ns		
Discharge Time	Tb	1	-	8.4	-	ns		

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.

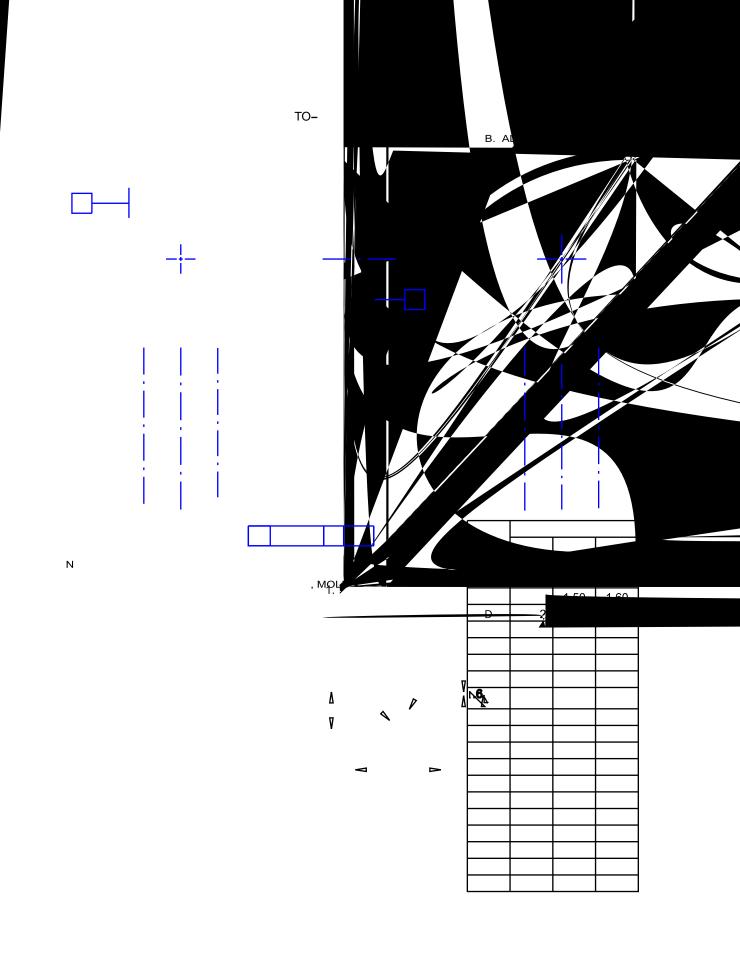
TYPICAL CHARACTERISTICS

TYPICAL CHARACTERISTICS (continued)



t, RECTANGULAR PULSE DURATION (sec)

Figure 13. Junction to Case Thermal Response



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