

Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.8)	V_{pp}	5	kV
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ELECTRICAL CHARACTERISTICS (at $T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant		Value	Unit
I _{GT}	V _D =12V R _L =33Ω	- -	MAX.	35	mA
V _{GT}		- -	MAX1	V	
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3KΩ	- -	MIN.	0.2V	
I _L	I _G =1.2I _{GT}	-	50 MAX.		
				mA 70	
I _H	I _T =500mA		MAX45	mA	
dV/dt	V _D =540V Gate Open T _j =125		MIN.	1000	V/μs
(dI/dt)c	(dV/dt)c =20V/μs, T _j =125		MIN.	15	A/ms
t _{on}	I _G =40mA I _A =200mA I _R =20mA T _j =25		TYP.	3	μs
t _{off}				30	
V _{CL}	I _{CL} =0.1mA t _p =1ms		MIN.	850	V

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=17A$ $t_p=380\mu s$	$T_j=25$	1.45	V

V_{TM} Threshold voltage
 I_{TM} Test current
 t_p Pulse width
 T_j Junction temperature

ACJT1235-8E

FIG.1 Maximum power dissipation versus RMS on-state current

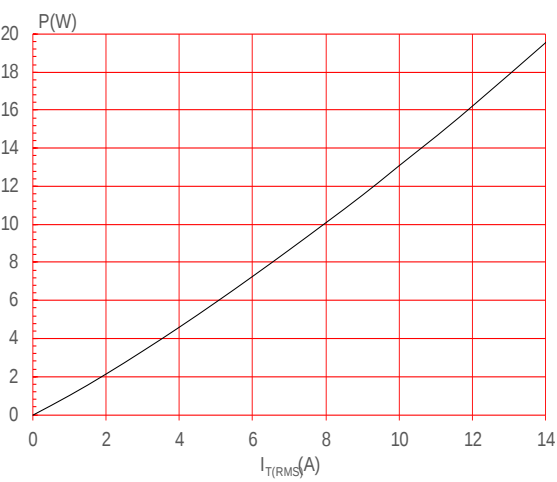


FIG.2: RMS on-state current versus case temperature

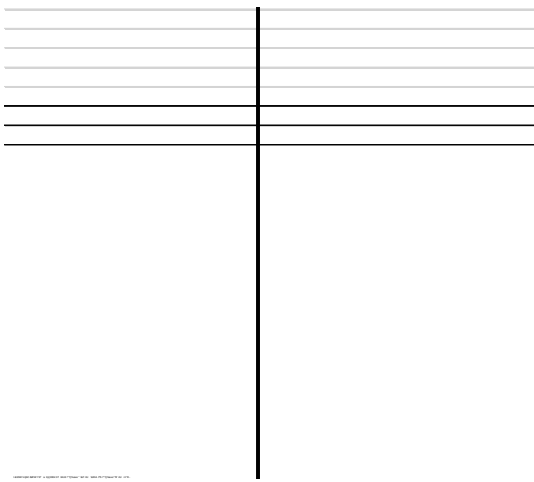
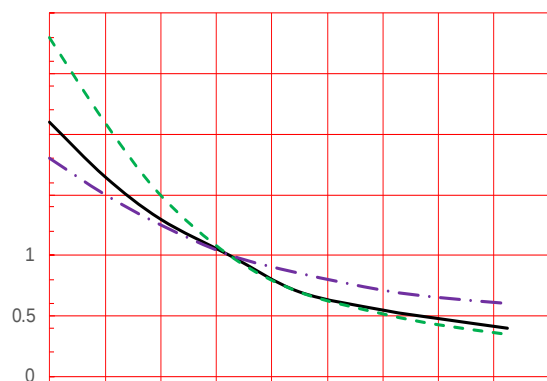


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature



ACJT1235-8E

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ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT1235-8E	800	35	TO-263	50	Tube
ACJT1235-8E-TR				800	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.13, 2023	A.1.0	Last updated

PACKAGE MECHANICAL DATA

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.40		9.60	0.37		0.378
D	2.40			0.094		
E	1.20		1.50	0.047		0.059
F	0.75		0.85	0.029		0.033
G						
H	4.40		4.70	0.173		0.177
J						
K						

