

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33	- -	MAX.	5	mA
				10	
V _{GT}		ALL	MAX.	1.3	V
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3k	ALL	MIN.	0.2	V
I _L	I _G =1.2I _{GT}	- -	MAX.	10	mA
				20	
I _H	I _T =100mA		MAX.	7	mA
dV/dt	V _D =540V Gate Open T _j =110		MIN.	100	V s
(dV/dt) _c	(dI/dt) _c =1.8A/ms, T _j =110		MIN.	2.5	
t _{on}	I _G =20mA I _A =200mA I _R =20mA T _j =25		TYP.	2.5	s
t _{off}				25	

Symbol	Parameter		Value(MAX.)	Unit
V _{TM}	I _{TM} =5A t _p =380 s	T _j =25	1.55	V
V _{TO}	Threshold voltage	T _j =125	0.92	V
R _D	Dynamic resistance	T _j =125	107	
I _{DRM}	V _D =V _{DRM} V _R =V _{RDM}	T _j =25	5	A
I _{RRM}		T _j =125	0.35	mA

Symbol	Parameter	Value	Unit
R _{th(j-c)}	junction to case (AC)	18	/W
R _{th(j-a)}	junction to ambient (AC)	150	/W

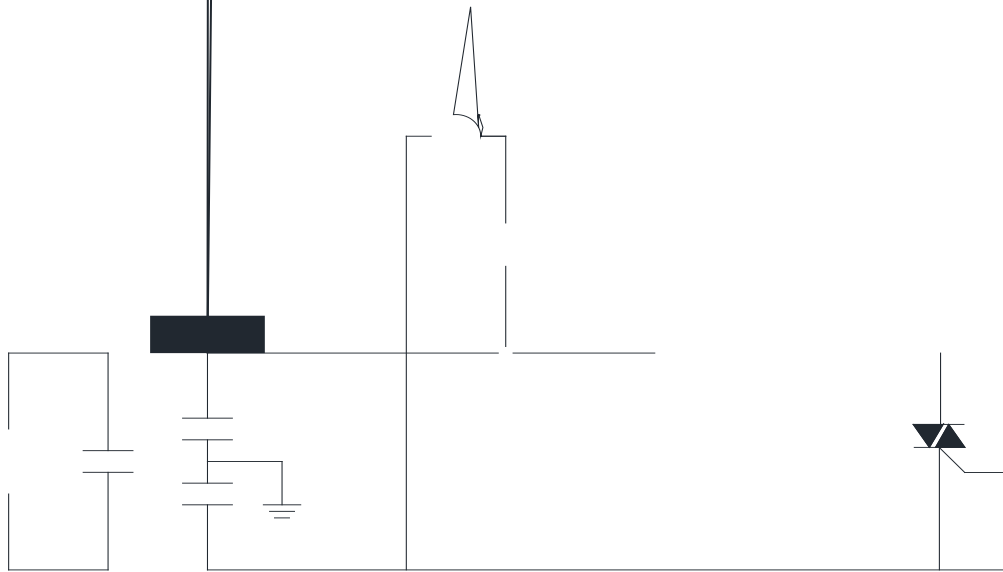
J ST 134 V -800 D

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



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

FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.50		1.80	0.059		0.071
A1					0.002	
B	2.90		3.10	0.114		0.122
B1	0.60		0.80	0.024		0.031
C	0.22		0.32	0.009		0.013
	6.30		6.70	0.248		0.264
	3.30		3.70	0.130		0.146
H	1.50		2.00	0.059		0.079
J	6.70		7.30	0.264		0.287
K						

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
W	-		12.30	-		0.482
E	1.65	1.75	1.85	0.065	0.069	0.073
F	5.45	5.50	5.55	0.215	0.217	0.219
D0		1.55	1.60		0.061	0.063
D1		-	-			
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.95	2.00	2.05	0.077	0.079	0.081
10P0	39.80	40.00	40.20	1.567	1.575	1.583
A0	6.85	6.95	7.05	0.269	0.273	0.276
B0	7.15	7.25	7.35	0.280	0.284	0.288
K0	1.95	2.05	2.15	0.076	0.080	0.084
T	0.20	0.25	0.30	0.008	0.010	0.012

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