



Rev. B Feb.-2021

A	2019-1-12											
B	2021-2-9	5/9	Td V_F 5V R_{θJA} R_{θJL} P_D <table><tr><td rowspan="2">ESD Voltage per IEC61000-4-2</td><td>Contact</td><td>V_{ESD1}</td><td>±30 KV</td></tr><tr><td>Air</td><td>V_{ESD2}</td><td>±30 KV</td></tr></table>	ESD Voltage per IEC61000-4-2	Contact	V _{ESD1}	±30 KV	Air	V _{ESD2}	±30 KV		
ESD Voltage per IEC61000-4-2	Contact	V _{ESD1}	±30 KV									
	Air	V _{ESD2}	±30 KV									



10/1000μs

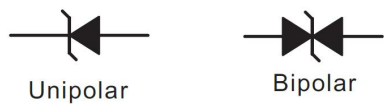
1500W

5.0V~440V SMC

Surface mount transient voltage suppressor,1500W peak pulse power capability at 10/1000μs waveform,Reverse breakdown voltage 5.0V~440V,SMC package.

Glass passivated junction, low inductance, For surface mounted applications, HF product

General purpose.





参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Peak Pulse Power Dissipation on 10/1000 us waveform	P_{PPM}	1500	W
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM} (UNI)	200	A
Power dissipation on Infinite heat sink at $T_A=50\text{ }^{\circ}\text{C}$	P_D	6.5	W
Maximum instantaneous forward voltage at 100 A for unidirectional only	V_F	3.5	V
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	75 15	$^{\circ}\text{C/W}$
Operating Junction and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	$^{\circ}\text{C}$

Note:

1. Mounted on 8 mm² (0.13mm thick) land areas.



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Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Maximum Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
			V _{BR} @ I _T		I _T	I _R @ V _{RRM}	V _C @ I _{PP}	I _{PP}	SMC	
		V _{RRM}	Min	Max					Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
SMCJ5.0A	SMCJ5.0CA	5	6.4	7	10	800	9.2	163	GDE	BDE
SMCJ6.0A	SMCJ6.0CA	6	6.67	7.37	10	800	10.3	145.7	GDG	BDG
SMCJ6.5A	SMCJ6.5CA	6.5	7.22	7.98	10	500	11.2	134	GDK	BDK
SMCJ7.0A	SMCJ7.0CA	7	7.78	8.6	10	200	12.0	125	GDM	BDM
SMCJ7.5A	SMCJ7.5CA	7.5	8.33	9.21	1	100	12.9	116.3	GDP	BDP
SMCJ8.0A	SMCJ8.0CA	8	8.89	9.83	1	50	13.6	110.3	GDR	BDR
SMCJ8.5A	SMCJ8.5CA	8.5	9.44	10.4	1	20	14.4	104.2	GDT	BDT
SMCJ9.0A	SMCJ9.0CA	9	10	11.1	1	10	15.4	97.4	GDV	BDV
SMCJ10A	SMCJ10CA	10	11.1	12.3	1	5	17.0	88.3	GDY	BDY
SMCJ11A	SMCJ11CA	11	12.2	13.5	1	1	18.2	82.5	GDZ	BDZ
SMCJ12A	SMCJ12CA	12	13.3	14.7	1	1	19.9	75.4	GEE	BEE
SMCJ13A	SMCJ13CA	13	14.4	15.9	1	1	21.5	69.8	GEG	BEG
SMCJ14A	SMCJ14CA	14	15.6	17.2	1	1	23.2	64.7	GEK	BEK
SMCJ15A	SMCJ15CA									



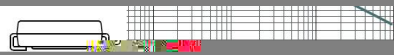
Type	Reverse Stand-off Voltage	Breakdown Voltage	Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package
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Fig.1 Peak Pulse



PEAK



n,Pe



DR
ENT

80

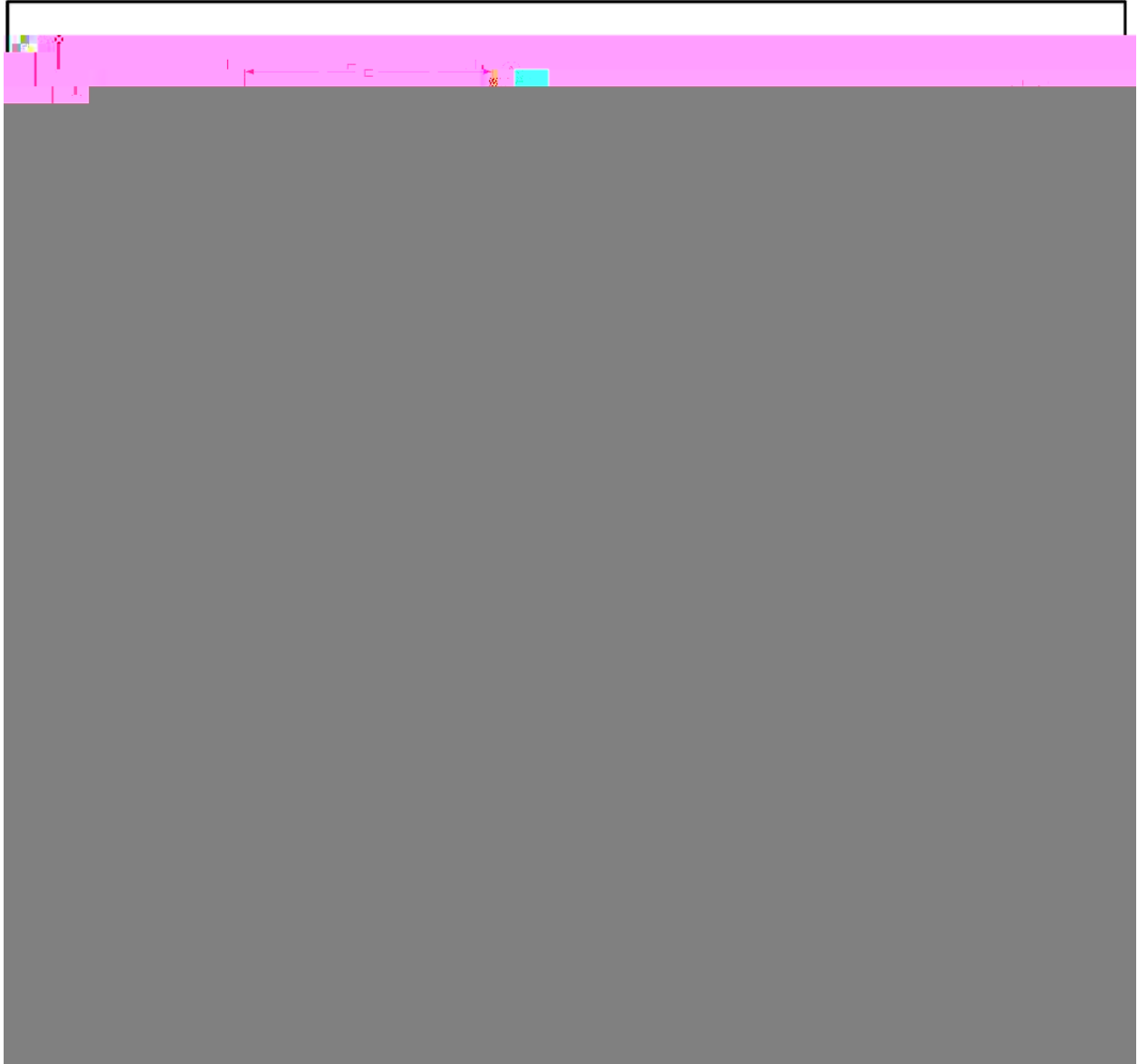


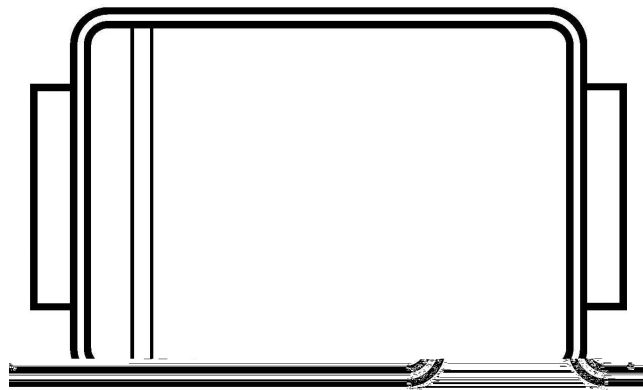
Forw

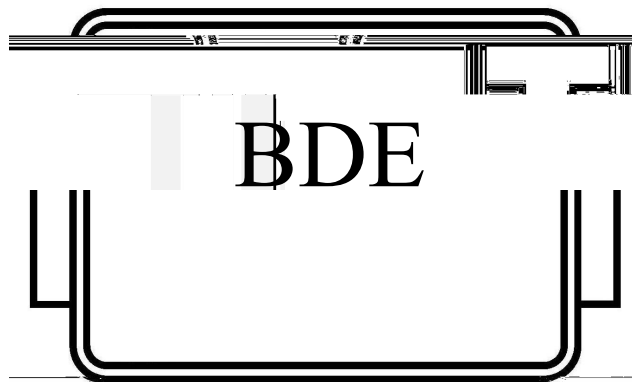




SMC







BDE

1 *

3 *

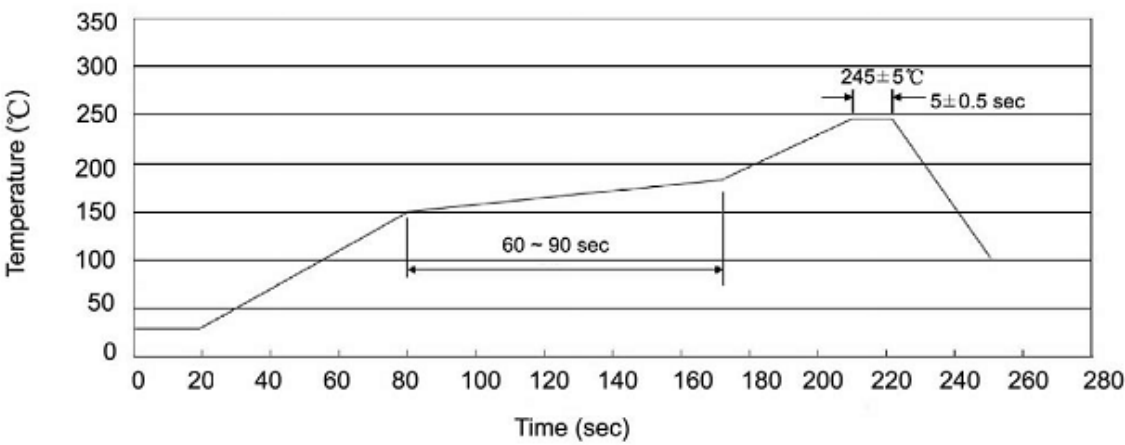
Note:

BDE Product Type Code

**** Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot No Code



Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1 150 180 60 90sec; 1.P