»Features

- Silicon technology
- Cannot be damaged by voltage
- Low capacitance
- Eliminate voltage overshoot
- Epoxy resin package
- Will not fatigue
- Complies with following standards:
  - GR1089
  - ITU K.20, K.21 and K.45
  - IEC 60950
  - UL 60950
  - TIA-968
- RoHS Compliant

SMA (DO-214AC)

»Mechanical Characteristics

- Package: SMA (2.67×5.3×2.2mm)
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020

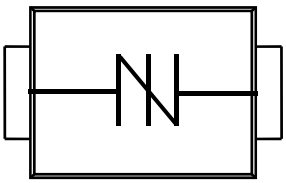
»Applications

- COMMERCIAL SYSTEMS
- INDUSTRIAL & INSTRUMENTATION
- COMMUNICATIONS

»Marking Information

PxxA = Type Code
YYWW = Date Code

»Pin Configuration



»Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SMA	Tape/Reel,13" reel	5000	EIA-481-1
	Tape/Reel,7" reel	2000	EIA-481-1

»Absolute Maximum Ratings

Parameter	Symbol	Value	Units	Remarks
Peak Pulse Voltage	V_{PP}	3000	V	10/700us
Peak Pulse Current	I_{PP}	45	A	10/1000us
Peak Pulse Current	I_{PK}	150	A	8/20us
Peak One-cycle Surge Current	I_{TSM}	20	A	60Hz
Rate of Rise of Current	di/dt	500	A/us	
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	30	℃/W	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	120	℃/W	
Operating Temperature Range	T_J	-40 to 150	℃	
Storage Temperature Range	T_{STG}	-55 to 150	℃	

»Electrical Characteristics (TA=25°C unless otherwise noted)

Part Number	Marking	I_H mA MIN	V_S V 100KV/S MAX	I_{S_LMT} mA	V_T V @ I_T MAX	I_T A	I_D uA @ V_D MAX	V_D V	C_O pF 1MHz,2V_{DC} TYP
BEP0080TA	P008A	40	25	500	4	2.2	5	6	53
BEP0220TA	P02A	40	30	500	4	2.2	5	15	53
BEP0300TA	P03A	40	40	500	4	2.2	5	25	50
BEP0640TA	P06A	120	77	800	4	2.2	5	58	48
BEP0720TA	P07A	120	88	800	4	2.2	5	65	48
BEP0900TA	P09A	120	98	800	4	2.2	5	75	48
BEP1100TA	P11A	120	130	800	4	2.2	5	90	45
BEP1300TA	P13A	120	160	800	4	2.2	5	120	45
BEP1500TA	P15A	120	180	800	4	2.2	5	140	43
BEP1800TA	P18A	120	220	800	4	2.2	5	170	40
BEP2300TA	P23A	120	260	800	4	2.2	5	190	38
BEP2600TA	P26A	120	300	800	4	2.2	5	220	35
BEP3100TA	P31A	120	350	800	4	2.2	5	275	33
BEP3500TA	P35A	120	400	800	4	2.2	5	320	30
BEP4200TA	P42A	120	550	800	4	2.2	5	400	23

»Rating And Characteristic Curves (TA=25°C unless otherwise noted)

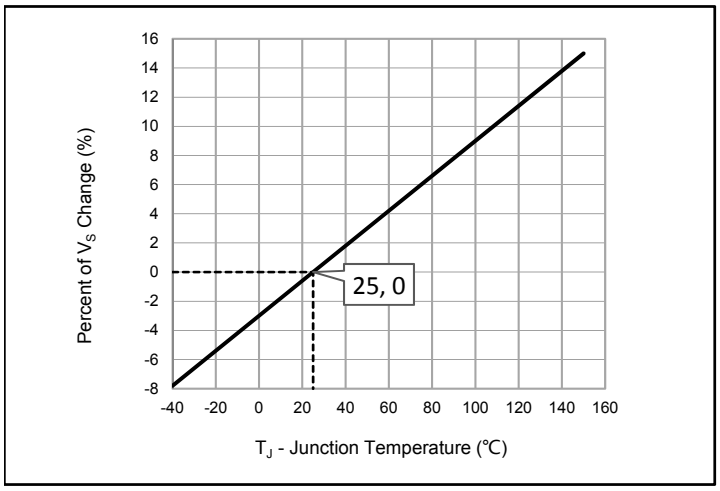


Fig.1 - Peak Pulse Current Rating

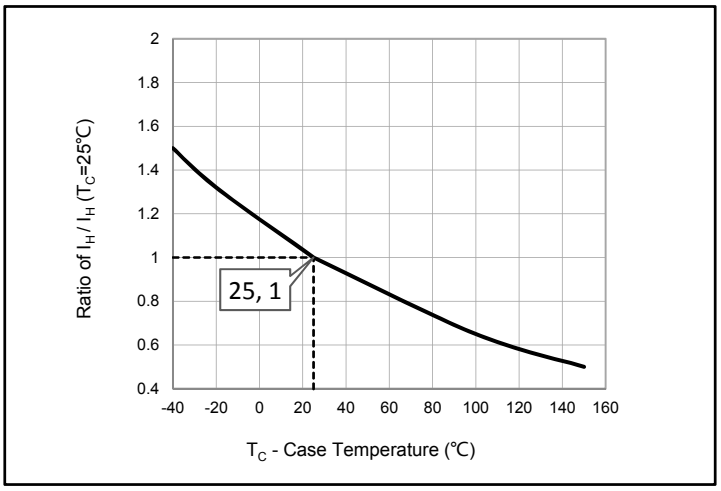


Fig.2 - Normalized DC Holding Current vs. Case Temperature

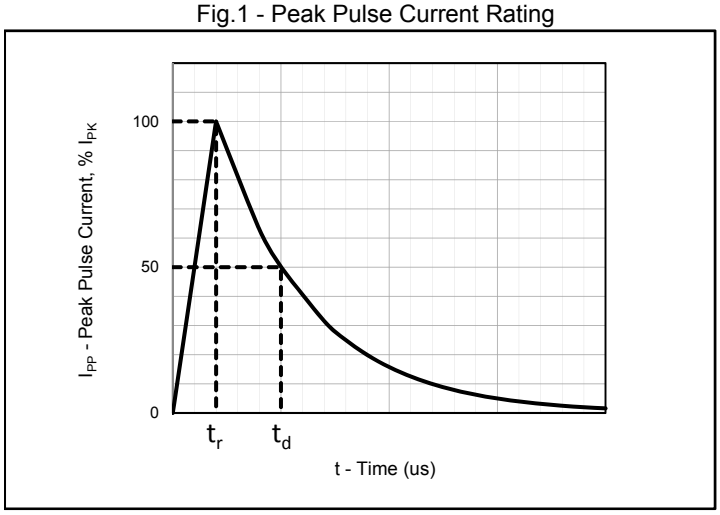


Fig.3 - tr/td us Pulse Waveform

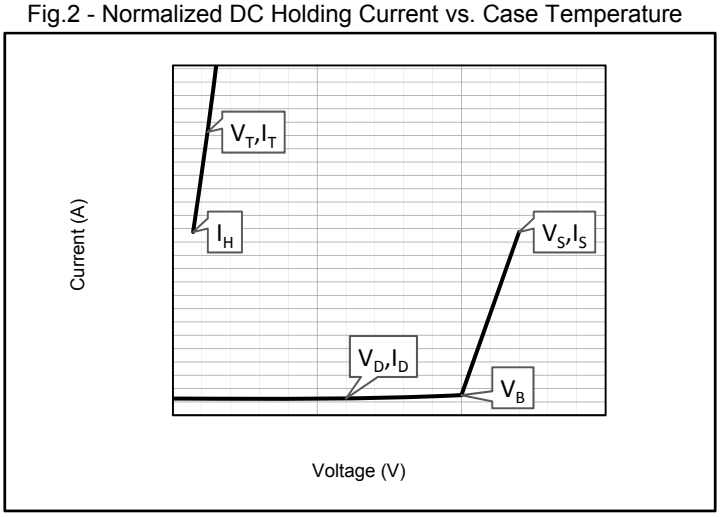


Fig.4 - VI Curve

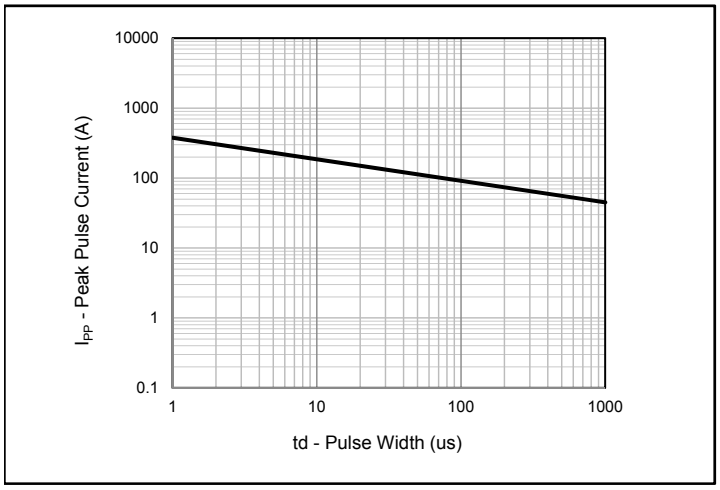


Fig.5 - Peak Pulse Current Rating

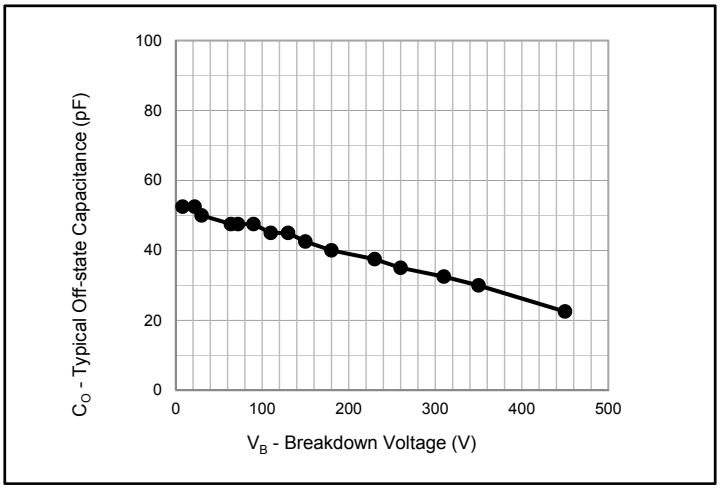
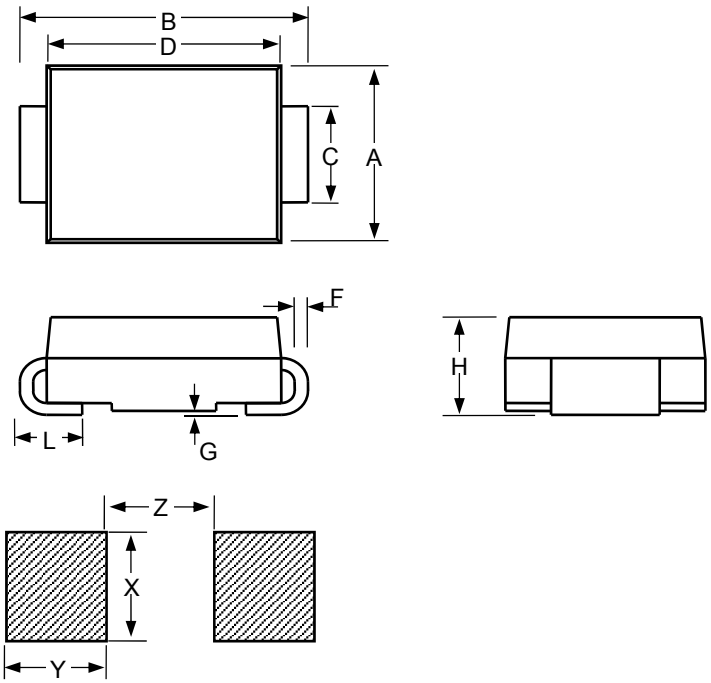


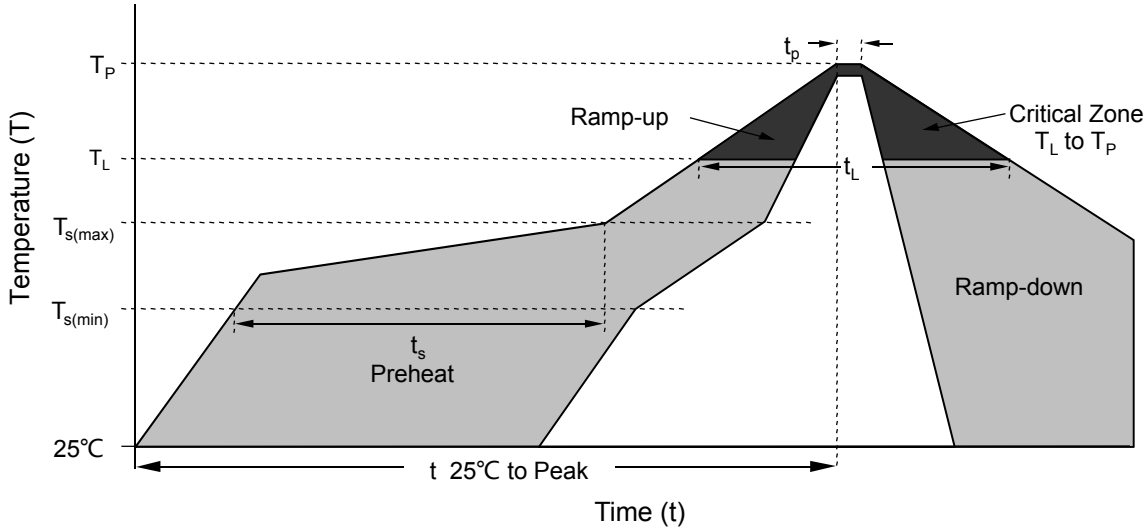
Fig.6 - Typical Off-state Capacitance

»Package Dimensions



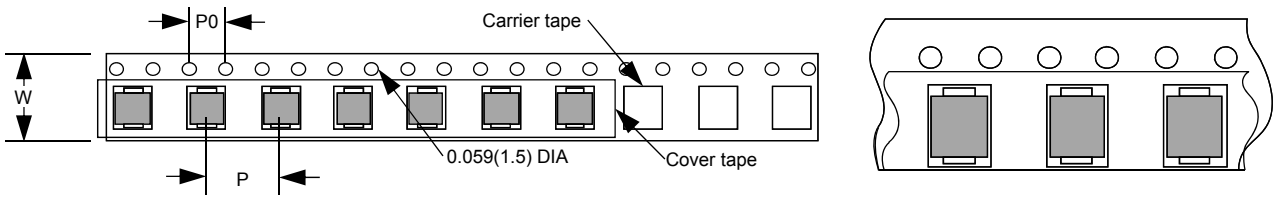
SMA						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.1	0.105	0.11	2.54	2.67	2.8
B	0.194	0.209	0.223	4.93	5.3	5.66
C	0.051		0.067	1.3		1.7
D	0.157		0.177	3.99		4.5
L	0.03		0.06	0.76		1.52
F	0.006		0.012	0.152		0.305
G	-		0.008	-		0.203
H	0.078	0.087	0.095	1.98	2.2	2.42
X		0.085			2.16	
Y		0.07			1.78	
Z		0.079			2	

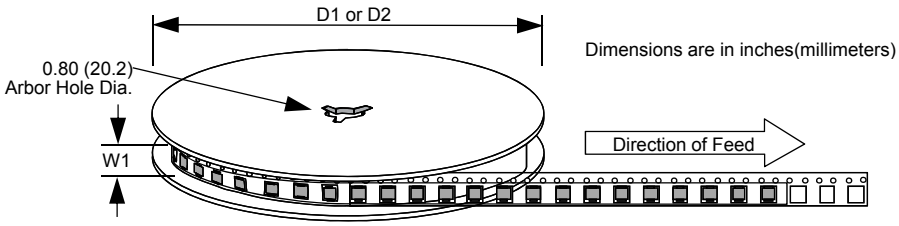
»Soldering Parameters



Reflow Condition		Lead-free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{S(max)}$ to TL - Ramp-up Rate		3°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Time (t_L)	60 – 150 secs
Peak Temperature (T_P)		$260^{+0/-5\ °C}$
Time within 5°C of actual peak Temperature (t_p)		20 – 40 secs
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (t)		8 minutes Max.
Do not exceed		260°C

»Tape and Reel Specification





Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
P		0.157			4	
P0		0.157			4	
W		0.472			12	
W1		0.492			12.5	
D1		7			177.8	
D2		13			330.2	

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