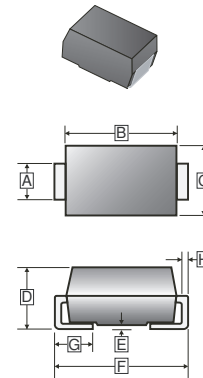


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Glass passivated chip
- Low leakage
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- For use in stabilizing and clipping circuits with high power rating

SMA



MECHANICAL DATA

- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Laser band denotes cathode end

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.23	1.65	E	-	0.3
B	3.99	4.75	F	4.70	5.28
C	2.30	2.90	G	0.75	1.52
D	1.90	2.62	H	0.15	0.31

ORDER INFORMATION

Part Number	Type
SMA47xx-C Series	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Parameter	Symbol	Ratings	Unit
DC Power Dissipation @T _L =50°C ¹	P _D	1	W
Junction Temperature Range	T _J	-55~175	°C
Storage Temperature Range	T _{STG}	-55~175	°C

Notes:

1. T_L=Lead temperature at 3/8" (9.5mm) from the body.

ELECTRICAL CHARACTERISTICS (Rating 25°C ambient temperature unless otherwise specified.)

Part Number	Nominal Zener Voltage		Max. Zener Impedance				Max. Reverse Leakage Current		Max. DC Zener	Max. Surge Current
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		I_{ZM}	I_{RM}
	Nom.V	mA	Ω	mA	Ω	mA	μA	V	mA	mApk
SMA4734-C	5.6	45	5	45	600	1	10	2	161	805
SMA4735-C	6.2	41	2	41	700	1	10	3	146	730
SMA4736-C	6.8	37	3.5	37	700	1	10	4	133	660
SMA4737-C	7.5	34	4	34	700	0.5	10	5	121	605
SMA4738-C	8.2	31	4.5	31	700	0.5	10	6	110	550
SMA4739-C	9.1	28	5	28	700	0.5	10	7	100	500
SMA4740-C	10	25	7	25	700	0.25	10	7.6	91	454
SMA4741-C	11	23	8	23	700	0.25	5	8.4	83	414
SMA4742-C	12	21	9	21	700	0.25	5	9.1	76	380
SMA4743-C	13	19	10	19	700	0.25	5	9.9	69	344
SMA4744-C	15	17	14	17	700	0.25	5	11.4	61	305
SMA4745-C	16	15.5	16	15.5	700	0.25	5	12.2	57	285
SMA4746-C	18	14	20	14	750	0.25	5	13.7	50	250
SMA4747-C	20	12.5	22	12.5	750	0.25	5	15.2	45	225
SMA4748-C	22	11.5	23	11.5	750	0.25	5	16.7	41	205
SMA4749-C	24	10.5	25	10.5	750	0.25	5	18.2	38	190
SMA4750-C	27	9.5	35	9.5	750	0.25	5	20.6	34	170
SMA4751-C	30	8.5	40	8.5	1000	0.25	5	22.8	30	150
SMA4752-C	33	7.5	45	7.5	1000	0.25	5	25.1	27	135
SMA4753-C	36	7	50	7	1000	0.25	5	27.4	25	125
SMA4754-C	39	6.5	60	6.5	1000	0.25	5	29.7	23	115
SMA4755-C	43	6	70	6	1500	0.25	5	32.7	22	110
SMA4756-C	47	5.5	80	5.5	1500	0.25	5	35.8	19	95
SMA4757-C	51	5	95	5	1500	0.25	5	38.8	18	90
SMA4758-C	56	4.5	110	4.5	2000	0.25	5	42.6	16	80
SMA4759-C	62	4	125	4	2000	0.25	5	47.1	14	70
SMA4760-C	68	3.7	150	3.7	2000	0.25	5	51.7	13	65
SMA4761-C	75	3.3	175	3.3	2000	0.25	5	56	12	60
SMA4762-C	82	3	200	3	3000	0.25	5	62.2	11	55
SMA4763-C	91	2.8	250	2.8	3000	0.25	5	69.2	10	50
SMA4764-C	100	2.5	350	2.5	3000	0.25	5	76	9	45
SMAZ1110-C	110	2.3	450	2.3	4000	0.25	5	83.6	8.6	40
SMAZ1120-C	120	2	550	2	4500	0.25	5	91.2	7.8	37
SMAZ1130-C	130	1.9	700	1.9	5000	0.25	5	98.8	7	34
SMAZ1150-C	150	1.7	1000	1.7	6000	0.25	5	114	6.4	30
SMAZ1160-C	160	1.6	1100	1.6	6500	0.25	5	121.6	5.8	28
SMAZ1180-C	180	1.4	1200	1.4	7000	0.25	5	136.8	5.2	25
SMAZ1200-C	200	1.2	1900	1.2	9990	0.25	5	152	4.7	22
SMAZ1300-C	300	0.8	2300	0.8	9500	0.25	5	228	3	15

Notes:

- The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.
- The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC.

RATINGS AND CHARACTERISTIC CURVES

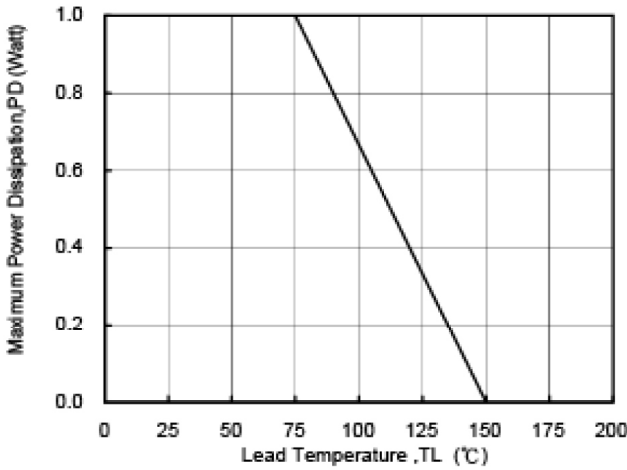


Fig. 1 - Power Temperature Derating Cur

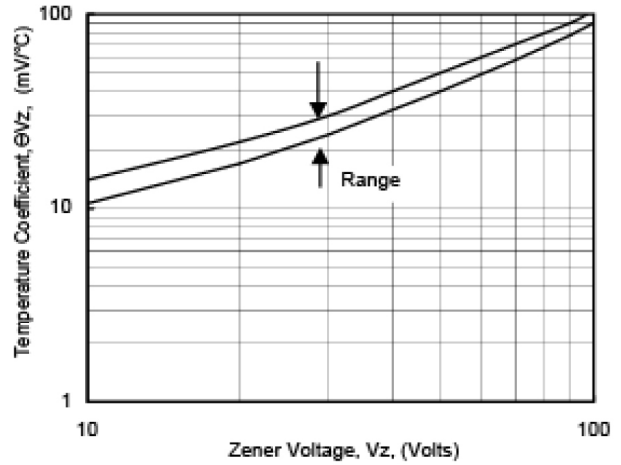


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

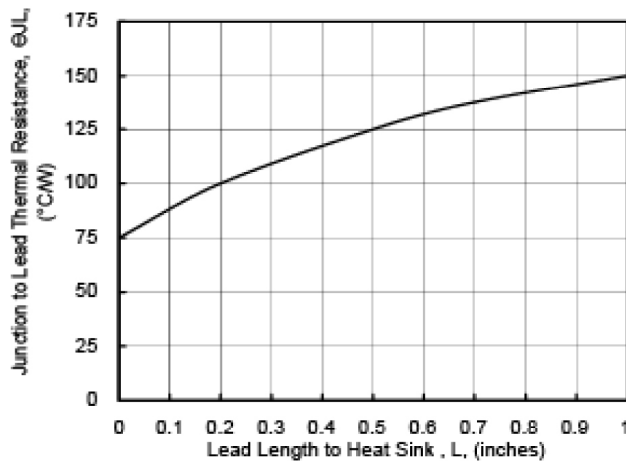


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

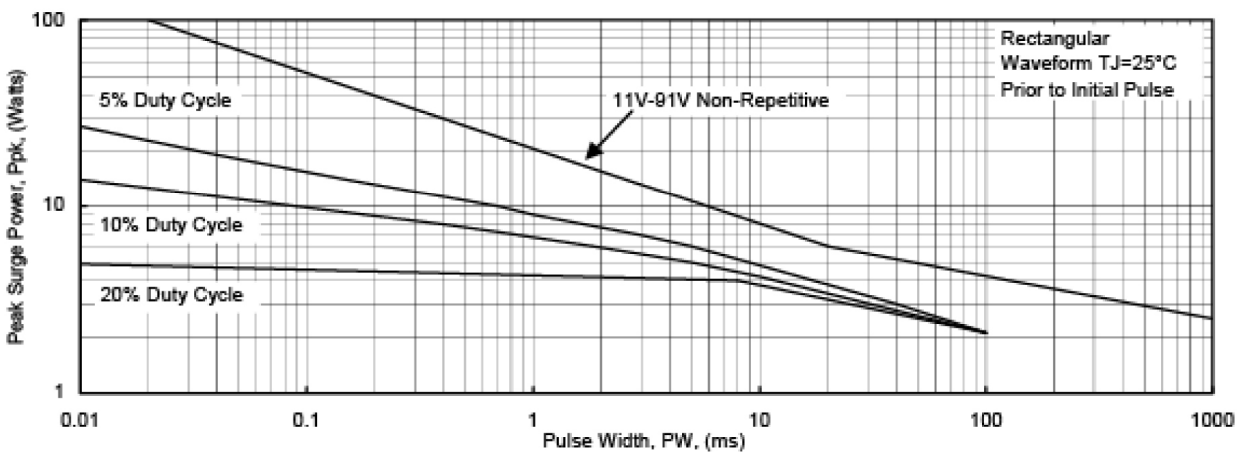


Fig. 4 - Maximum Surge Power