VOLTAGE RANGE

2.0 to 36 Volts

1000 Watts Peak Power

FEATURES

High reliability

Small power mold type

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Solderable per MIL-STD-202, method 208 guranteed
* Polarity: Color band denotes cathode end except Bidirectional
* Mounting position: Any
* Weight: 0.063 grams





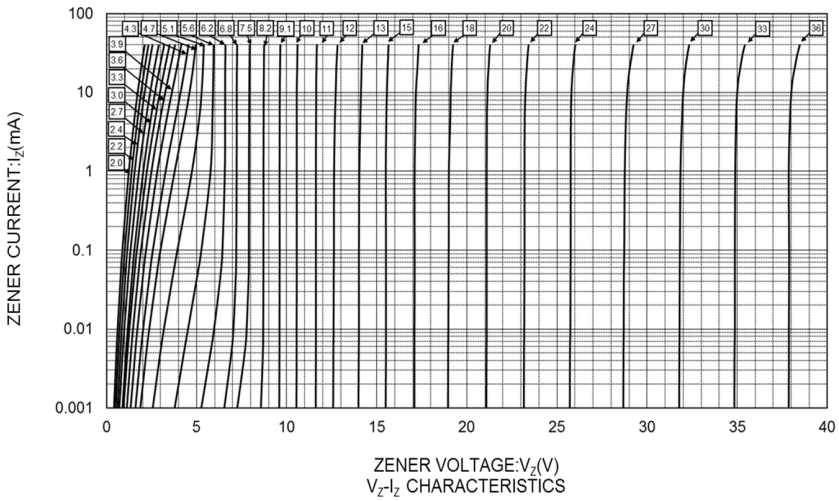
- "GK" represents the brand name
- "XXX" represents the periodic code
- "YY" represents the product type marking

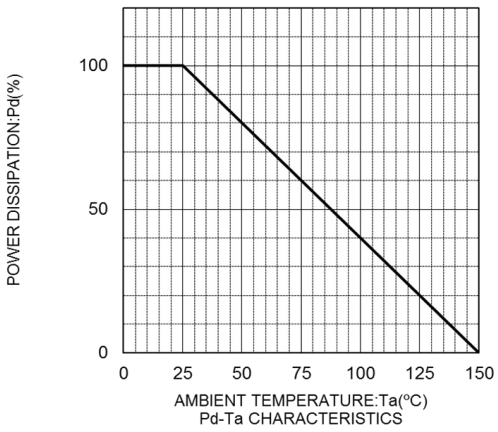
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

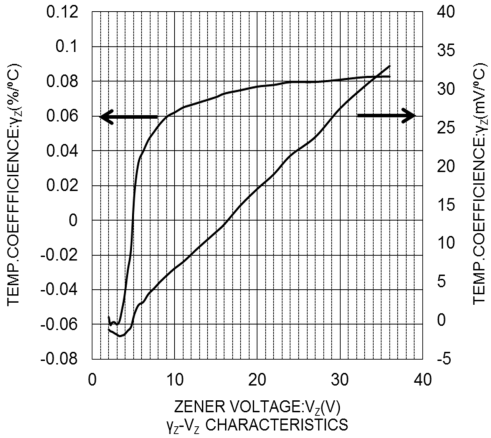
Rating 25℃ ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

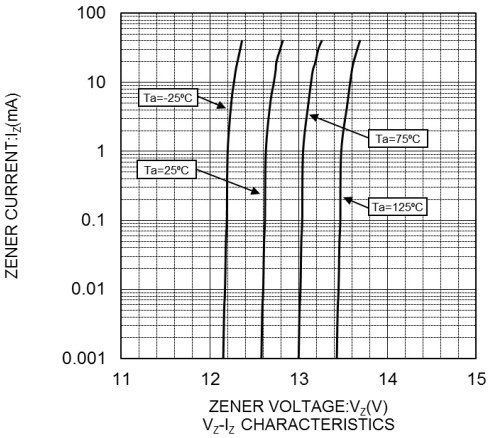
Parameter	Symbol	Limits	Unit
Power dissipation	P_D	1000	mW
Junction temperature	T_j	150	℃
Storage temperature	T_{stg}	-55 ~ 150	℃

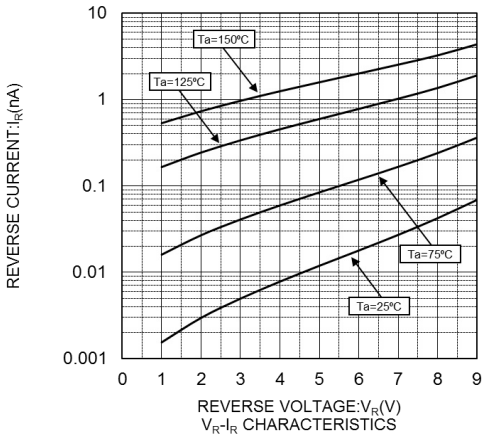
RATING AND CHARACTERISTIC CURVES



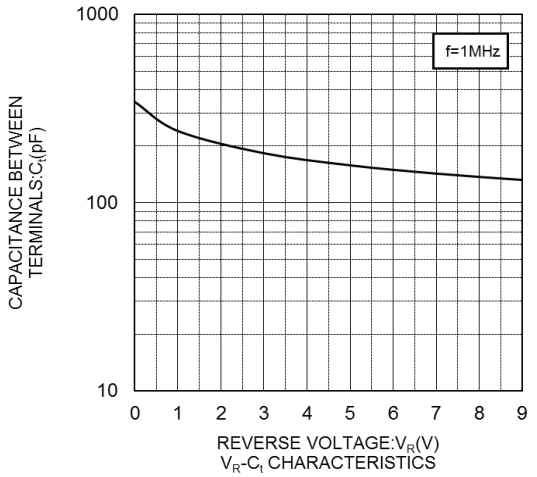


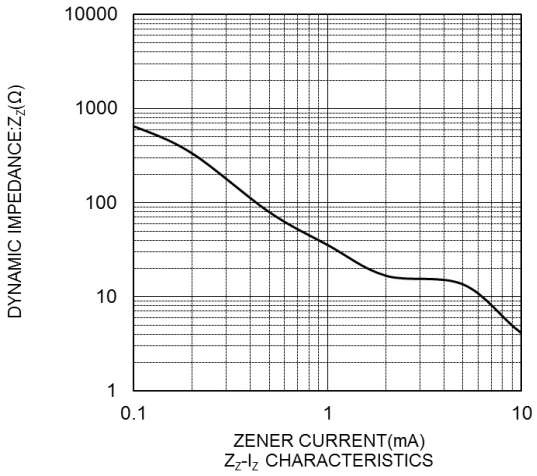


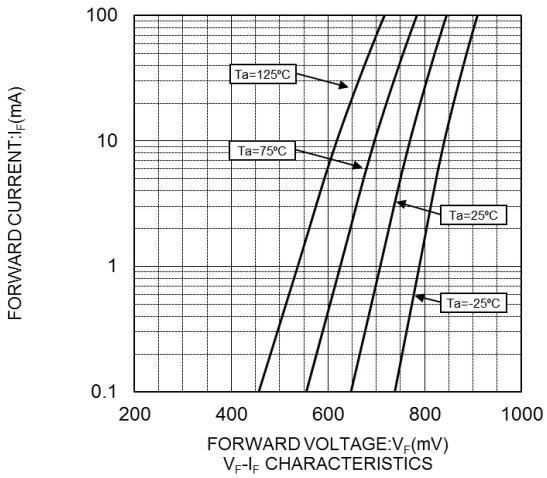


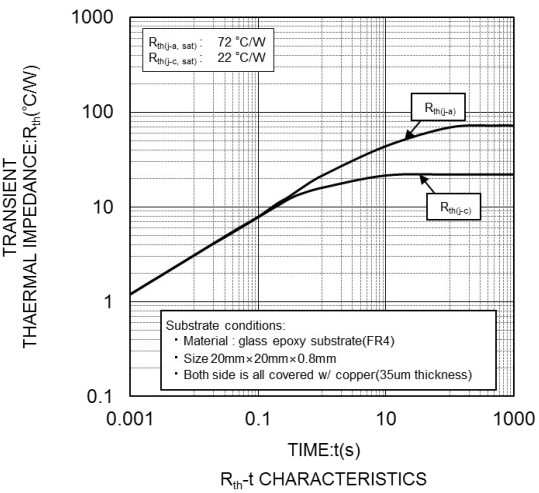


RATING AND CHARACTERISTIC CURVES









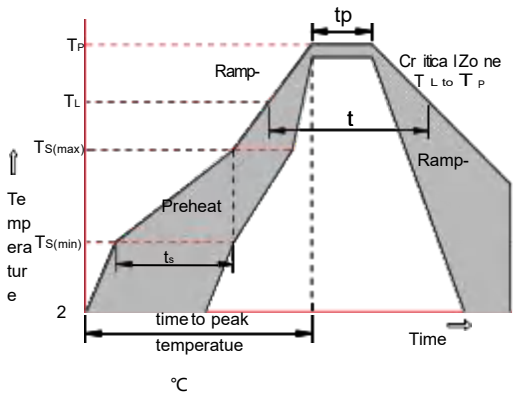
P/N	Symbol							Marking
	Zener Voltage:V_Z(V)			Dynamic Impedance:Z_Z(Ω)		Reverse Current:I_R(μA)		
	MIN.	MAX.	I_Z(mA)	MAX.	I_Z(mA)	MAX.	V_R(V)	
PTZ 2.0B	2.000	2.240	40	25	40	200	0.5	2.0B
PTZ 2.2B	2.200	2.450	40	20	40	200	0.7	2.2B
PTZ 2.4B	2.400	2.700	40	15	40	200	1.0	2.4B
PTZ 2.7B	2.700	3.100	40	15	40	200	1.0	2.7B
PTZ 3.0B	3.000	3.400	40	15	40	100	1.0	3.0B
PTZ 3.3B	3.300	3.700	40	15	40	80	1.0	3.3B
PTZ 3.6B	3.600	4.000	40	15	40	60	1.0	3.6B
PTZ 3.9B	3.900	4.400	40	15	40	40	1.0	3.9B
PTZ 4.3B	4.300	4.800	40	15	40	20	1.0	4.3B
PTZ 4.7B	4.700	5.200	40	10	40	20	1.0	4.7B
PTZ 5.1B	5.100	5.700	40	8	40	20	1.0	5.1B
PTZ 5.6B	5.600	6.300	40	8	40	20	1.5	5.6B
PTZ 6.2B	6.200	7.000	40	6	40	20	3.0	6.2B
PTZ 6.8B	6.800	7.700	40	6	40	20	3.5	6.8B
PTZ 7.5B	7.500	8.400	40	4	40	20	4.0	7.5B
PTZ 8.2B	8.200	9.300	40	4	40	20	5.0	8.2B
PTZ 9.1B	9.100	10.200	40	6	40	20	6.0	9.1B
PTZ 10B	10.000	11.200	40	6	40	10	7.0	10B
PTZ 11B	11.000	12.300	20	8	20	10	8.0	11B
PTZ 12B	12.000	13.500	20	8	20	10	9.0	12B
PTZ 13B	13.300	15.000	20	10	20	10	10.0	13B
PTZ 15B	14.700	16.500	20	10	20	10	11.0	15B
PTZ 16B	16.200	18.300	20	12	20	10	12.0	16B
PTZ 18B	18.000	20.300	20	12	20	10	13.0	18B
PTZ 20B	20.000	22.400	20	14	20	10	15.0	20B
PTZ 22B	22.000	24.500	10	14	10	10	17.0	22B
PTZ 24B	24.000	27.600	10	16	10	10	19.0	24B
PTZ 27B	27.000	30.800	10	16	10	10	21.0	27B
PTZ 30B	30.000	34.000	10	18	10	10	23.0	30B
PTZ 33B	33.000	37.000	10	18	10	10	25.0	33B
PTZ 36B	36.000	40.000	10	20	10	10	27.0	36B

V_Z test time is 40ms.

Soldering parameters

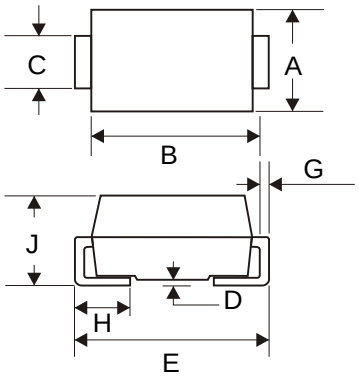
Reflow Condition		Pb-Free assembly (see as bellow)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150℃
	-Temperature Max($T_{s(max)}$)	+200℃
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3℃/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3℃/sec. Max
Reflow	-Temperature(T_L)(Liquid us)	+217℃
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)℃
Time within 5℃ of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6℃/sec. Max
Time 25℃ to Peak Temp (T_P)		8 min. Max
Do not exceed		+260℃

FIG5: Reflow condition

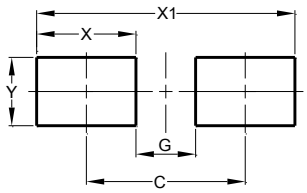


Package Dimensions & Suggested Pad Layout

SMA



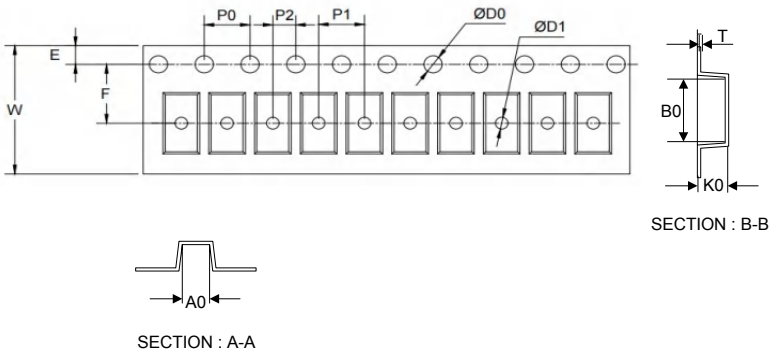
SMA		
Dim	**Min**	**Max**
A	2.40	2.79
B	3.99	4.50
C	1.32	1.47
D	-	0.20
E	4.93	5.28
G	0.15	0.31
H	0.76	1.52
J	1.98	2.29
All Dimensions in mm		



Dimensions	Value (in mm)
C	4.20
G	1.90
X	2.30
X1	6.50
Y	2.00

Tape & rell specification

Tape

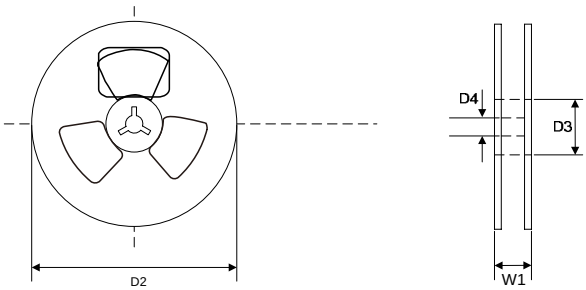


SECTION : B-B

SECTION : A-A

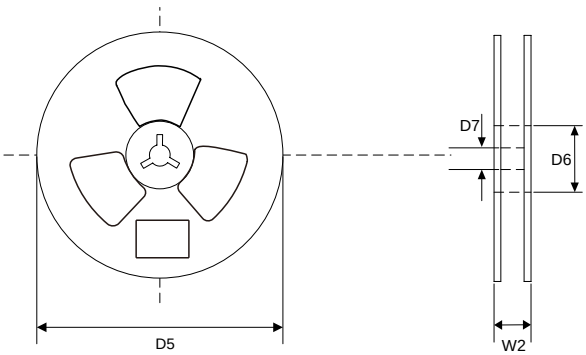
Symbol	Dimension (mm)
P0	4.00±0.20
P1	4.00±0.20
P2	2.00±0.20
D0	1.60±0.20
D1	1.60±0.20
E	1.75±0.20
F	5.50±0.15
W	12.00±0.25
A0	2.75±0.20
B0	5.25±0.20
K0	2.45±0.25
T	0.20±0.10

7” Reel



D2	176.0±5.0
D3	55.0Min.
D4	14.0±2.5
W1	14.0±2.5
Quantity: 2000PCS	

13” Reel



D5	330.0±5.0
D6	73.0Min.
D7	14.0±2.5
W2	14.0±2.5
Quantity: 5000PCS	