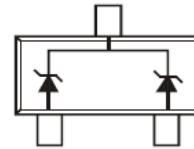
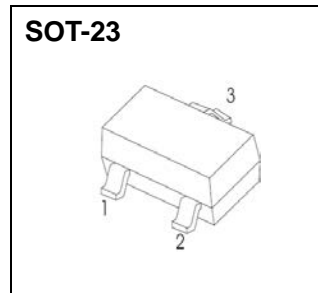


Plastic-Encapsulate Diodes

ZENER DIODE

FEATURES

- Dual zeners common cathode configuration
- 300mW Power Dissipation
- Ideally suited for automated insertion
- Zener Voltages from 2.7V -51V
- Ultra-Small Surface Mount Package Power dissipation



Maximum Ratings ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Characteristic	Symbol	Value	Unit
Forward Voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Power Dissipation(Note 1)	P_d	300	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	417	$^{\circ}\text{C}/\text{W}$
Operating and Storage Temperature Range	T_j, T_{STG}	-55~ +150	$^{\circ}\text{C}$

Notes: 1. Valid provided that device terminals are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS
T_a=25°C unless otherwise specified

Type Number	Marking Code	Zener Voltage Range (Note 2)	Maximum Zener Impedance (Note3)		Typical Temperature Coefficient	Min. Reverse Voltage (Note2)
		@ I _{ZT} = 5.0mA	Z _{ZT} @ I _{ZT} = 5.0mA	Z _{ZK} @ I _{ZK} = 1.0mA		@ I _R = 0.1μA
		V _Z (Volts)	Ohms	Ohms	T _c (%/°C)	V _R (Volts)
DZ23C2V7	KV1	2.5-2.9	83	500	-0.065	—
DZ23C3V0	KV2	2.8-3.2	95	500	-0.060	—
DZ23C3V3	KV3	3.1-3.5	95	500	-0.055	—
DZ23C3V6	KV4	3.4-3.8	95	500	-0.055	—
DZ23C3V9	KV5	3.7-4.1	95	500	-0.050	—
DZ23C4V3	KV6	4.0-4.6	95	500	-0.035	—
DZ23C4V7	KV7	4.4-5.0	78	500	-0.015	—
DZ23C5V1	KV8	4.8-5.4	60	480	+0.005	0.8
DZ23C5V6	KV9	5.2-6.0	40	400	+0.020	1.0
DZ23C6V2	KVA	5.8-6.6	10	200	+0.030	2.0
DZ23C6V8	KVB	6.4-7.2	8.0	150	+0.045	3.0
DZ23C7V5	KVC	7.0-7.9	7.0	50	+0.050	5.0
DZ23C8V2	KVD	7.7-8.7	7.0	50	+0.055	6.0
DZ23C9V1	KVE	8.5-9.6	10	50	+0.065	7.0
DZ23C10	KVF	9.4-10.6	15	70	+0.065	7.5
DZ23C11	KVG	10.4-11.6	20	70	+0.070	8.5
DZ23C12	KVH	11.4-12.7	20	90	+0.075	9.0
DZ23C13	KVI	12.4-14.1	25	110	+0.080	10.0
DZ23C15	KVJ	13.8-15.6	30	110	+0.080	11.0
DZ23C16	KVK	15.3-17.1	40	170	+0.090	12.0
DZ23C18	KVL	16.8-19.1	50	170	+0.090	14.0
DZ23C20	KVM	18.8-21.2	50	220	+0.090	15.0
DZ23C22	KVN	20.8-23.3	55	220	+0.090	17.0
DZ23C24	KVO	22.8-25.6	80	220	+0.090	18.0
DZ23C27	KVP	25.1-28.9	80	250	+0.090	20.0
DZ23C30	KVQ	28-32	80	250	+0.090	22.5
DZ23C33	KVR	31-35	80	250	+0.090	25.0
DZ23C36	KVS	34-38	90	250	+0.090	27.0
DZ23C39	KVT	37-41	90	300	+0.110	29.0
DZ23C43	KVU	40-46	100	700	+0.110	32.0
DZ23C47	KVV	44-50	100	750	+0.110	35.0
DZ23C51	KVW	48-54	100	750	+0.110	38.0

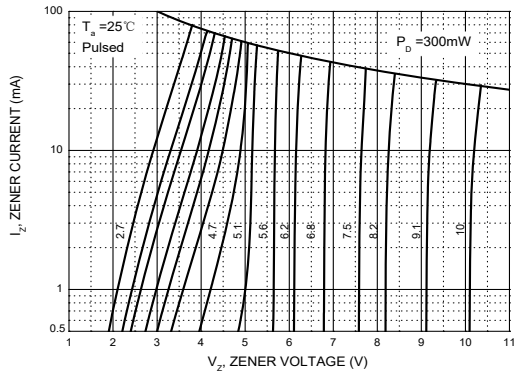
Notes: 2. Short duration pulse test used to minimize self-heating effect.

3. f = 1KHz.

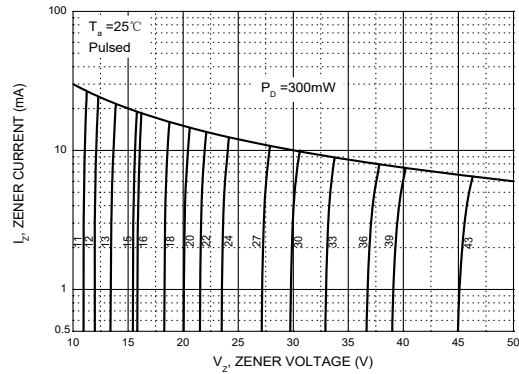
Typical Characteristics

Notes: Our company currently provide GI V-I HV products only

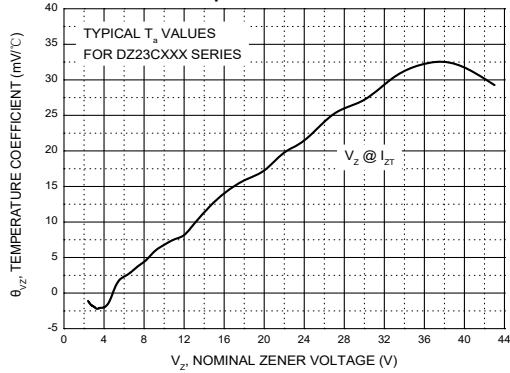
Zener Characteristics (V_z Up to 10 V)



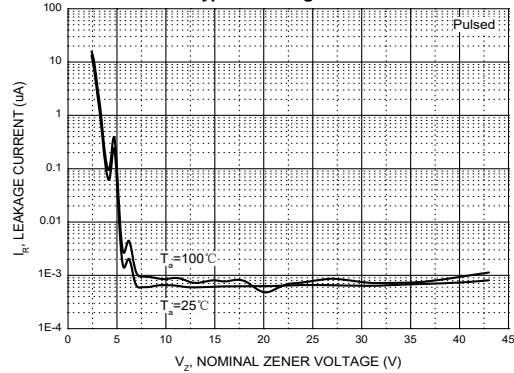
Zener Characteristics (11 V to 43 V)



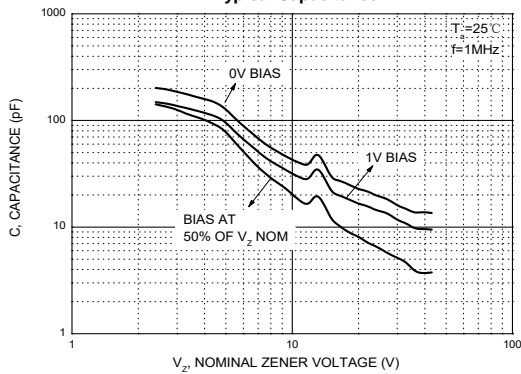
Temperature Coefficients



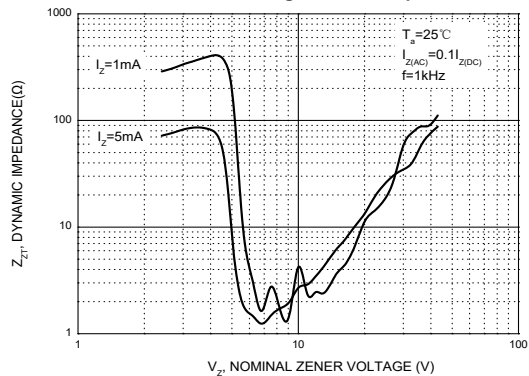
Typical Leakage Current



Typical Capacitance



Effect of Zener Voltage on Zener Impedance



Power Derating Curve

