



Micro Electronic Instrument

SURFACE MOUNT GLASS PASSIVATED ZENER

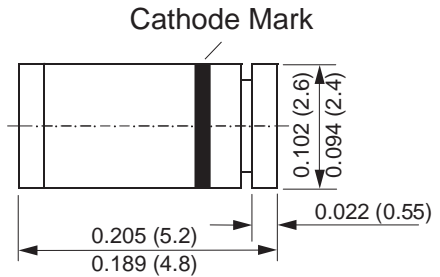
ZM4735 THRU ZM4763A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V - 0
- For surface mounted applications
- Glass passivated chip junction
- Low zener impedance
- Low regulation factor
- High temperature soldering guaranteed:
250°C/10 seconds at terminals

Glass MELF

RoHS & REACH Compliance



Dimensions are in inches and (millimeters)

MECHANICAL DATA

- Case JEDEC DO-213AB molded plastic over passivated junction
- Terminals: Solder plated, solderable per MIL - STD - 750 method 2026
- Polarity: Red band denotes Zener diode and positive end (cathode)
- Mounting Position: Any
- Weight: 0.0046 ounce, 0.116 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

OPERATING JUNCTION AND STORAGE TEMPERATURE RANGE: T_J, T_{STG}: -55°C to +150°C

TYPE	NOMINAL ZENER VOLTAGE AT I _{ZT} (NOTE 1) V _Z (Volts)	TEST CURRENT I _{ZT} (mA)	MAXIMUM DYNAMIC IMPEDANCE			MAXIMUM DC REVERSE LEAKAGE CURRENT		MAXIMUM ZENER CURRENT (NOTE 2) I _{ZM} (mA _{pk})	MAXIMUM FORWARD VOLTAGE at 200mA V _F (Volts)
			Z _{zT} at I _{ZT} (Ohms)	Z _{zk} at I _{zk} (Ohms)	I _{zk} (mA)	I _R (μA)	V _R (Volts)		
ZM4735	6.2	41.0	2.0	700	1.0	50.0	3.0	730.0	1.2
ZM4736	6.8	37.0	3.5	700	1.0	10.0	4.0	660.0	1.2
ZM4737	7.5	34.0	4.0	700	0.5	10.0	5.0	605.0	1.2
ZM4738	8.2	31.0	4.5	700	0.5	10.0	6.0	550.0	1.2
ZM4739	9.1	28.0	5.0	700	0.5	10.0	7.0	500.0	1.2
ZM4740	10	25.0	7.0	700	0.25	10.0	7.6	454.0	1.2
ZM4741	11	23.0	8.0	700	0.25	5.0	8.4	414.0	1.2
ZM4742	12	21.0	9.0	700	0.25	5.0	9.1	380.0	1.2
ZM4743	13	19.0	10.0	700	0.25	5.0	9.9	344.0	1.2
ZM4744	15	17.0	14.0	700	0.25	5.0	11.4	305.0	1.2
ZM4745	16	15.5	16.0	700	0.25	5.0	12.2	285.0	1.2
ZM4746	18	14.0	20.0	750	0.25	5.0	13.7	250.0	1.2
ZM4747	20	12.5	22.0	750	0.25	5.0	15.2	225.0	1.2
ZM4748	22	11.5	23.0	750	0.25	5.0	16.7	205.0	1.2
ZM4749	24	10.5	25.0	750	0.25	5.0	18.2	190.0	1.2
ZM4750	27	9.5	35.0	750	0.25	5.0	20.6	170.0	1.2
ZM4751	30	8.5	40.0	1000	0.25	5.0	22.8	150.0	1.2
ZM4752	33	7.5	45.0	1000	0.25	5.0	25.1	135.0	1.2
ZM4753	36	7.0	50.0	1000	0.25	5.0	27.4	125.0	1.2
ZM4754	39	6.5	60.0	1000	0.25	5.0	29.7	115.0	1.2
ZM4755	43	6.0	70.0	1500	0.25	5.0	32.7	110.0	1.2
ZM4756	47	5.5	80.0	1500	0.25	5.0	35.8	95.0	1.2
ZM4757	51	5.0	95.0	1500	0.25	5.0	38.8	90.0	1.2
ZM4758	56	4.5	110.0	2000	0.25	5.0	42.6	80.0	1.2
ZM4759	62	4.0	125.0	2000	0.25	5.0	47.1	70.0	1.2
ZM4760	68	3.7	150.0	2000	0.25	5.0	51.7	65.0	1.2
ZM4761	75	3.3	175.0	2000	0.25	5.0	56.0	60.0	1.2
ZM4762	82	3.0	200.0	3000	0.25	5.0	62.2	55.0	1.2
ZM4763	91	2.0	250.0	3000	0.25	5.0	69.2	50.0	1.2

NOTES:

- (1) Standard voltage tolerance is ±10%, Suffix A = ±5%
- (2) I_{ZM} is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method
- (3) Maximum steady state power dissipation is 1.0 watt at T_T=75°C

RATINGS AND CHARACTERISTIC CURVES ZM4735 THRU ZM4763A

FIG. 1 - MAXIMUM CONTINUOUS POWER DISSIPATION

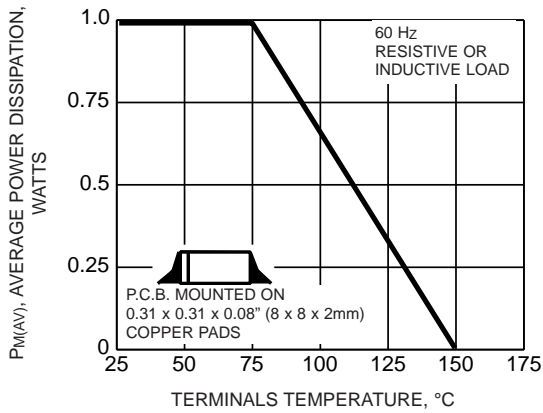


FIG. 2 - TYPICAL ZENER IMPEDANCE

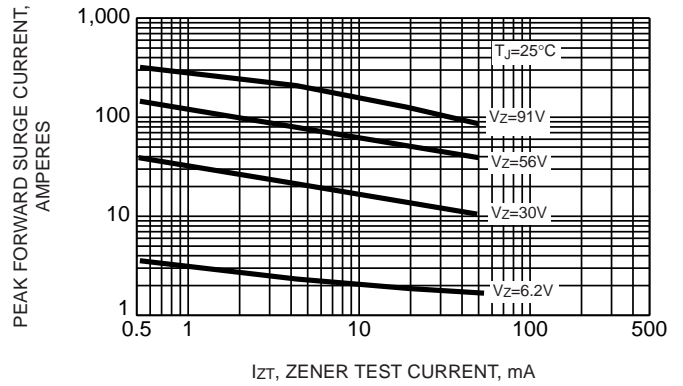


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS FOR GLL4763

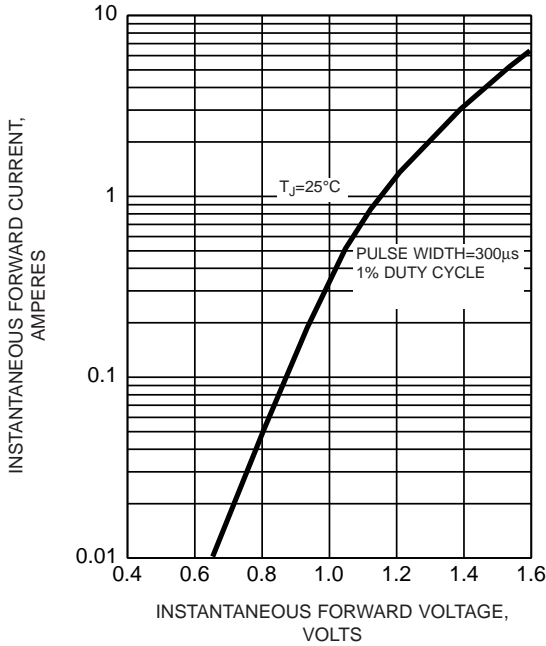


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

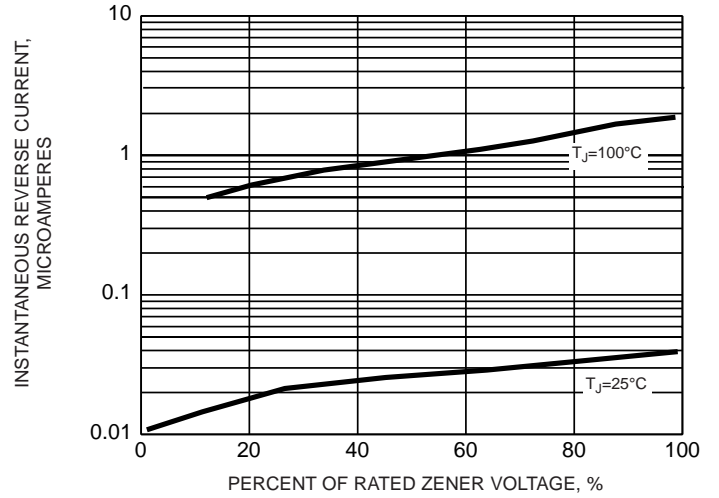


FIG. 5 - TYPICAL TEMPERATURE COEFFICIENTS

