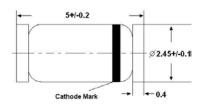
Silicon Planar Power Zener Diodes

For use in stabilizing and clipping circuits with high power rating. Standard Zener voltage tolerance is ±10%.

LL-41(DO-213AB)



Glass case MELF Dimensions in mm

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	1 ¹⁾	W
Operating Junction Temperature	Tj	175	°C
Storage Temperature Range	T _{stg}	- 65 to + 175	°C

¹⁾ Valid provided that electrodes are kept at ambient temperature.

Thermal Characteristics

Parameter	Symbol	Max.	Unit	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	170 ¹⁾	°C/W	
Forward Voltage at I _F = 200 mA	V_{F}	1.2	V	

¹⁾ Valid provided that electrodes are kept at ambient temperature.

Characteristics at T_a = 25°C

Туре	Zener Voltage ³⁾			Dynamic Resistance 1)			Reverse Current		Maximum Surge Current ⁴⁾	Maximum Regulator	
	Vz	@Izт ('	V)	at I _{ZT}	Z_{ZT} at I_{ZT}	Z _{ZK}	at I _{ZK}	I _R (µA)	at V _R	at T _a = 25°C	Current 2)
	Nom	Min.	Max.	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max.	(V)	I _{ZSM} (mA)	I _{ZM} (mA)
ZMY5.6G	5.6	5.04	6.16	45	5	600	1	10	2	810	162

¹⁾ The dynamic resistance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener Current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK}. Dynamic resistance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

²⁾Valid provided that electrodes are kept at ambient temperature.

 $^{^{3)}}$ Tested with pulses tp = 20 ms.

⁴⁾ The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current I_{ZT}.



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