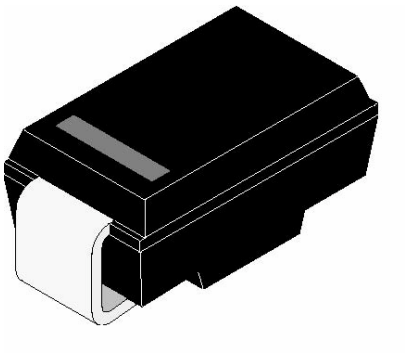
Leiditech

SMAZ5V1

Features



- For surface mounted applications
- Voltage range 3.3V to 100V
- Fits onto 5 mm SMD footpads
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Low Zener impedance
- Low regulation factor
- Lead (Pb)-free component
- Standard voltage tolerance is 10 %, Suffix A ± 5 %.

Applications

- Voltage stabilization

Mechanical Data

- Case: DO-214AC
- Weight: approx. 64 mg
- Packaging Codes/Options:

Absolute Maximum Ratings T_j = 25℃

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	T_{amb}=100℃	P_V	1	W
Junction temperature		T_j	150	℃
Storage temperature range		T_{stg}	–65...+150	℃

Electrical Characteristics T_j = 25℃

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F=0.2A		V_F			1.2	V

Electrical Characteristics (T_A =25℃ unless otherwise noted)

Type	Nominal Zener Voltage at I_{ZT} V_Z(1)	Test Current I_{ZT}	Maximum Dynamic Impedance			Maximum DC Reverse Leakage Current		Maximum Surge Current I_{RM}(2)
			Z_{ZT} at I_{ZT}	Z_{ZK} at I_{ZK}	I_{ZK}(1)	I_R	V_R	
	V	mA	Ω	Ω	mA	uA	V	mA pk
SMAZ5V1	5.1	49.0	7.0	550	1.0	10	1.0	890

Note: (1) Standard voltage tolerance is 10%, Suffix A ±5%
(2) Surge current 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℃

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Fig. 1 - Maximum Continuous Power Dissipation

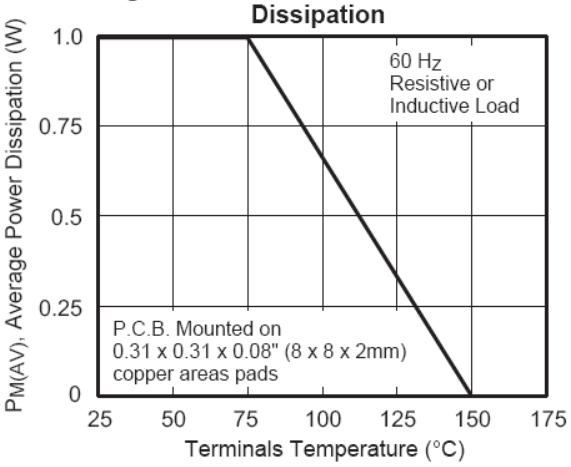


Fig. 2 - Typical Instantaneous Forward Characteristics for SML4763

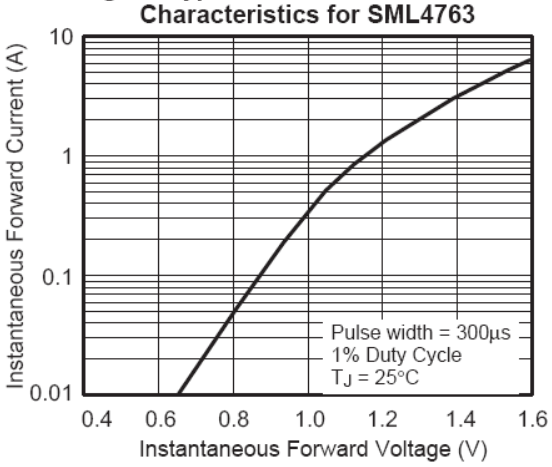


Fig. 3 - Typical Zener Impedance

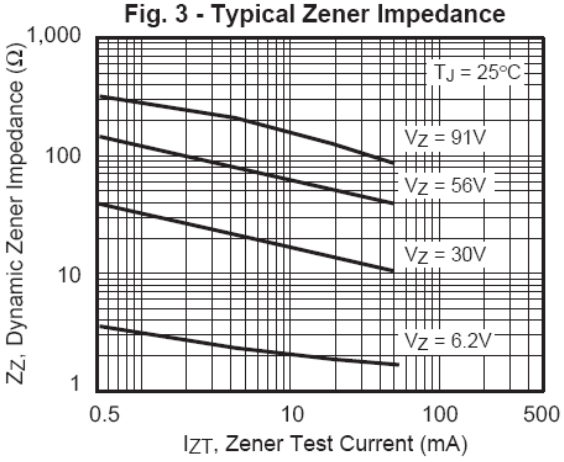


Fig. 4 - Typical Reverse Characteristics

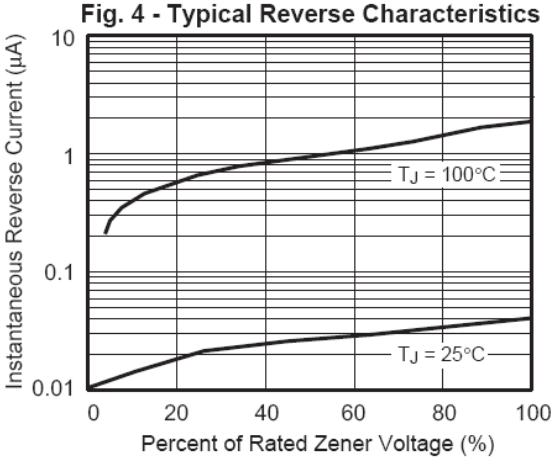
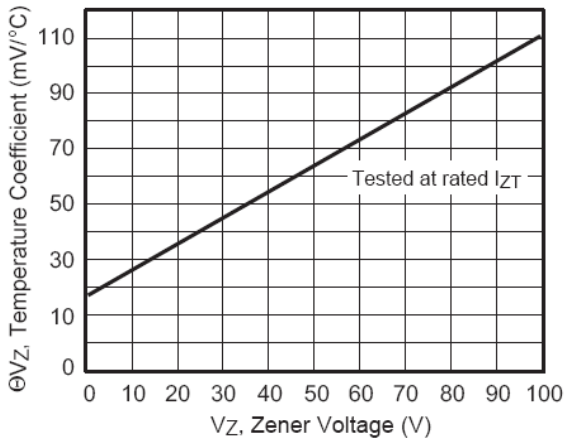
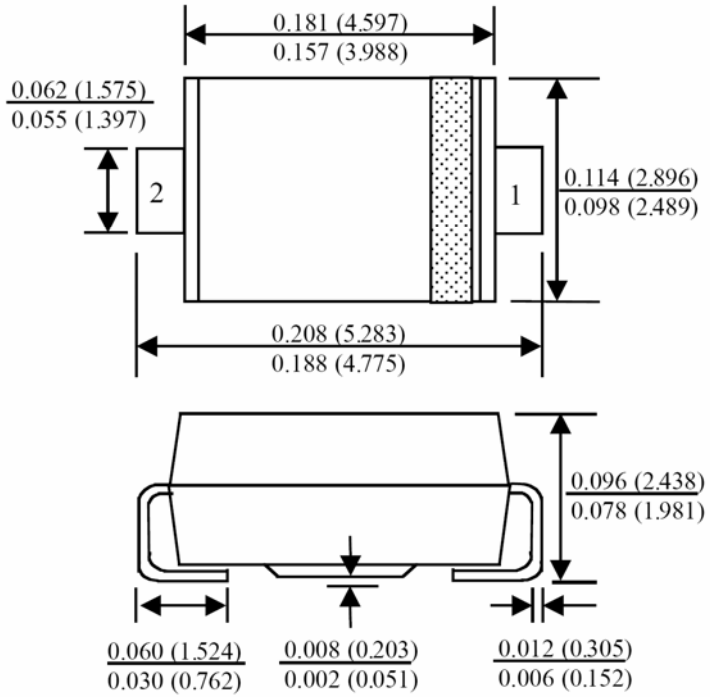
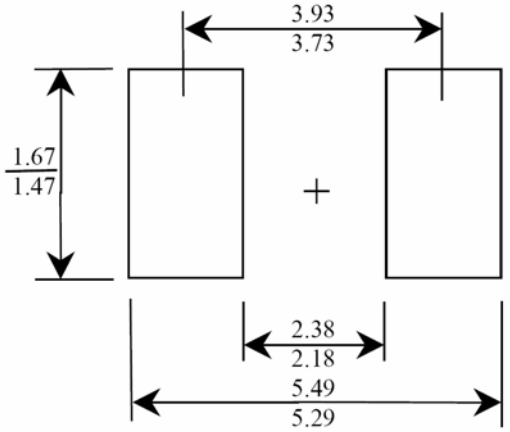


Fig. 5 - Typical Temperature Coefficients



Dimensions in mm





Minimum Recommended
Land Pattern

Shanghai Leiditech Electronic Co.,Ltd
Email: sale1@leiditech.com
Tel : +86- 021 50828806
Fax : +86- 021 50477059