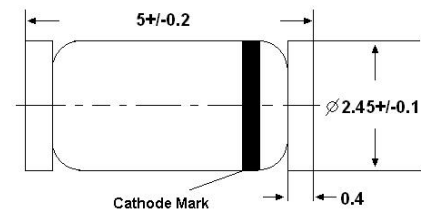


# ZMU100...ZMU180

## SILICON PLANAR POWER ZENER DIODES

for use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E 12 standard. Smaller voltage tolerances are upon request.

LL-41



Glass case MELF  
Dimensions in mm

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	1 <sup>1)</sup>	W
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

### Characteristics at $T_{\text{amb}} = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	170 <sup>1)</sup>	K/W

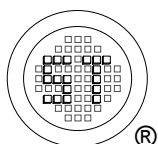
<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

### Characteristics at $T_{\text{amb}} = 25\text{ }^\circ\text{C}$

Type	Zener Voltage <sup>2)</sup>		Maximum Dynamic Resistance		Maximum Reverse Leakage Current		Admissible Zener Current <sup>1)</sup>
	$V_Z$ (V)	at $I_{ZT}$ (mA)	$Z_{ZT}$ ( $\Omega$ )	at $I_{ZT}$ (mA)	$I_R$ ( $\mu\text{A}$ )	at $V_R$ (V)	$I_Z$ (mA)
ZMU100	88...110	5	300	5	0.5	75	7
ZMU120	107...134	5	330	5	0.5	90	6
ZMU150	130...165	5	360	5	0.5	112	5
ZMU180	160...200	5	380	5	0.5	134	4

<sup>1)</sup> Valid provided that electrodes are kept at ambient temperature.

<sup>2)</sup> Tested with pulses  $t_p = 20\text{ ms}$



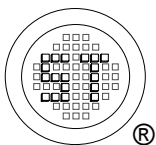
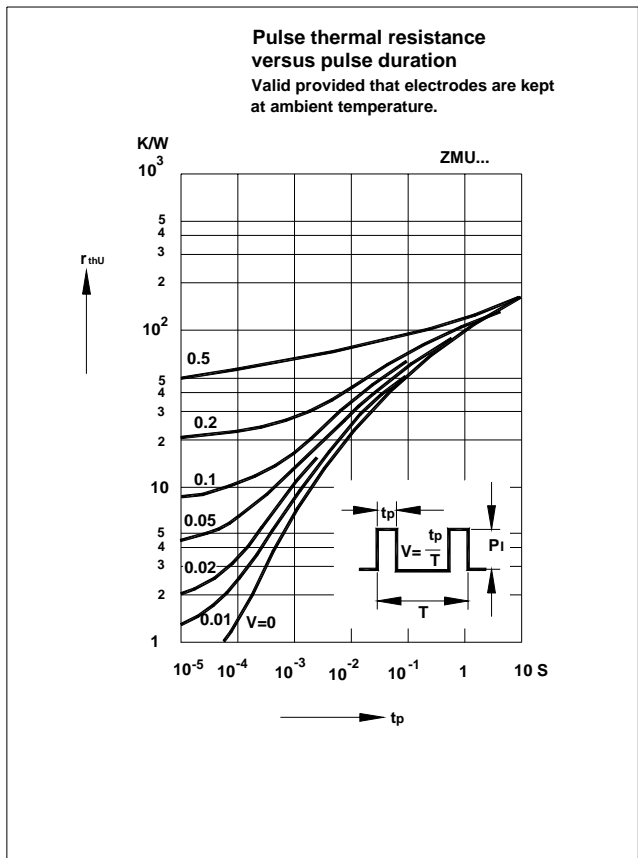
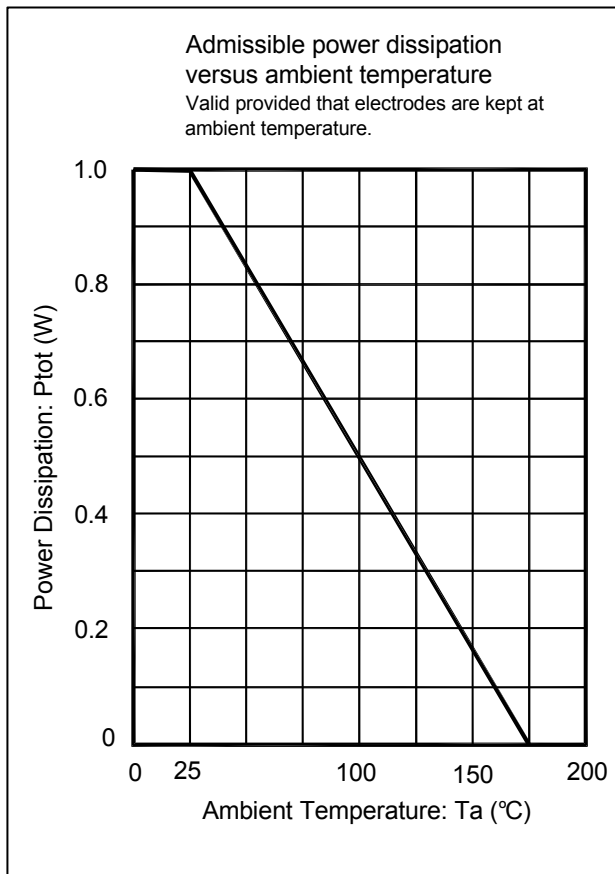
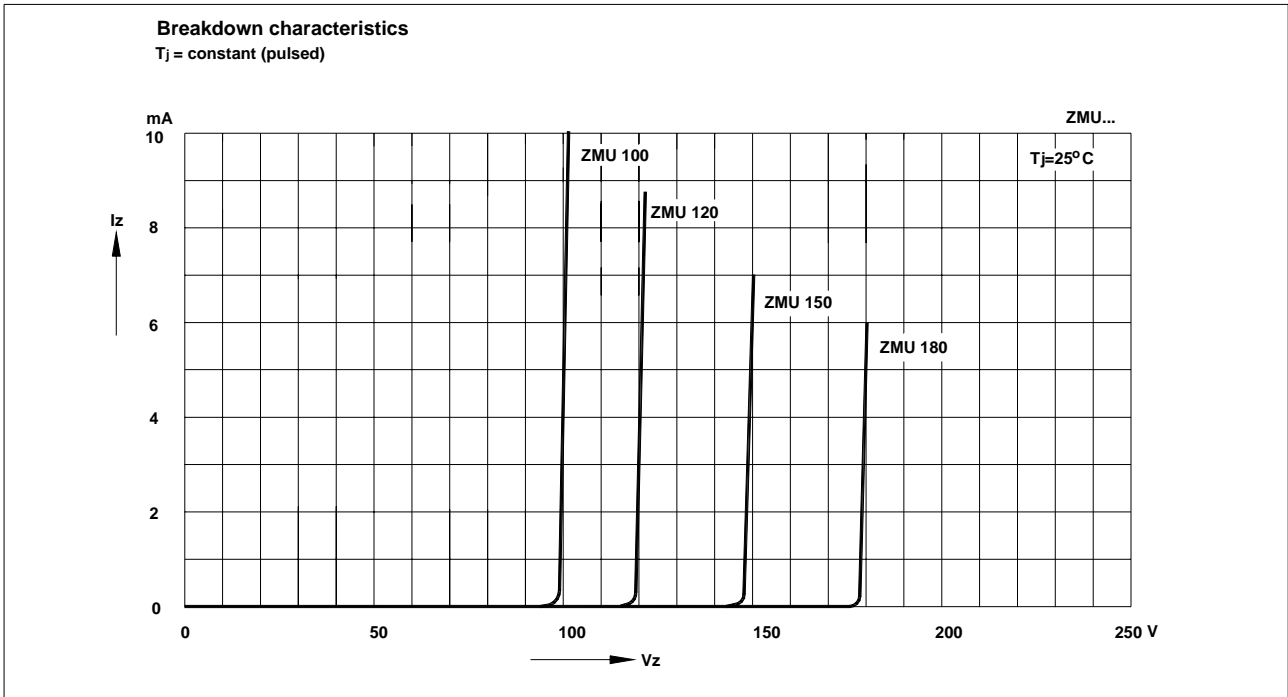
**SEMTECH ELECTRONICS LTD.**

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 04/09/2008

# ZMU100...ZMU180



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ISO/TS 16949 : 2002  
 Certificate No. 05103



ISO 14001:2004  
 Certificate No. 7116



ISO 9001:2000  
 Certificate No. 0506098

Dated : 04/09/2008