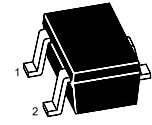
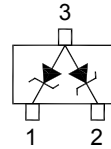


ESD6V8CAW

SILICON EPITAXIAL PLANAR DIODES

For protecting against ESD



SOT-323 Plastic Package

Marking Code: MB

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

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 55 to + 125	$^{\circ}\text{C}$

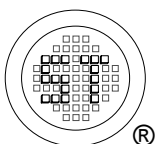
Electrical Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Zener Voltage ¹⁾ at $I_Z = 5\text{ mA}$	V_Z	6.5	6.8	7.1	V
Dynamic Impedance at $I_Z = 5\text{ mA}$	Z_Z	-	-	50	Ω
Knee Dynamic Impedance at $I_Z = 0.5\text{ mA}$	Z_{ZK}	-	-	100	Ω
Reverse Current at $V_R = 5\text{ V}$	I_R	-	-	0.5	μA
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_T	-	6	-	pF

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.

ESD Immunity Level

Parameter	Value	Unit
ESD Immunity Level at IEC61000-4-2 (Contact Discharge)	± 8	KV



SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



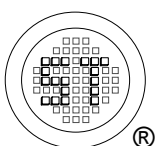
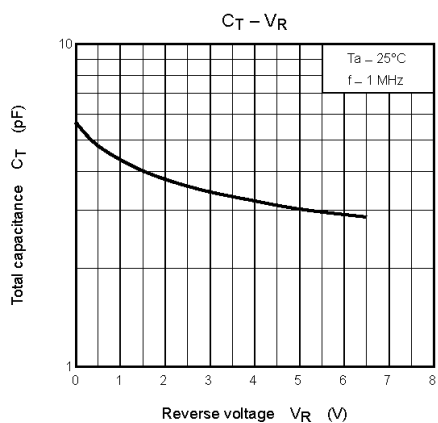
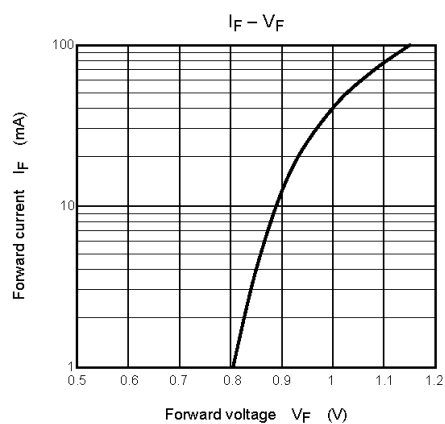
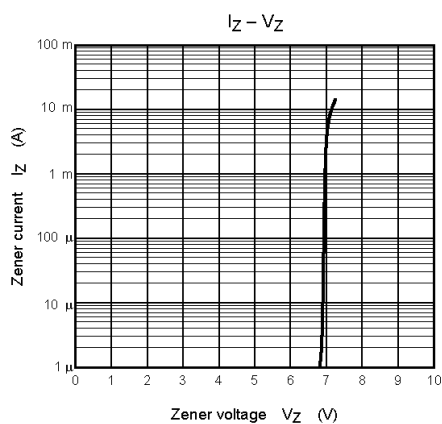
ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 26/04/2007

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