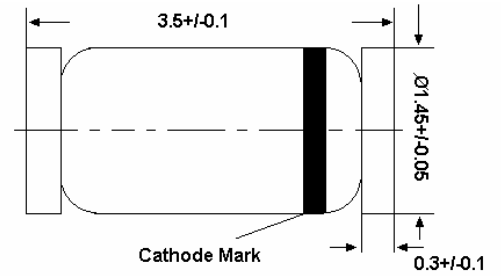


SCHOTTKY BARRIER DIODE

Ultra High-Speed Switching, Voltage Clamping
Protection Circuits and Blocking Applications

Features

- Low forward voltage.
- Guard ring protected.
- Hermetically-sealed leaded glass package.



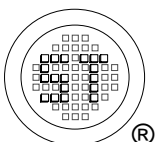
Glass case MiniMELF
Dimensions in mm

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

Parameter	Symbol	Limits	Unit
Continuous reverse voltage	V_R	30	V
Continuous forward current	I_F	200	mA
Average forward current	$I_{F(AV)}$	200	mA
Repetitive peak forward current	I_{FRM}	300	mA
Non-repetitive peak forward current	I_{FSM}	5	A
Operating ambient temperature	T_{amb}	-65 to +125	$^\circ\text{C}$
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_S	-65 to +150	$^\circ\text{C}$
Thermal resistance from junction to ambient	R_{thja}	320	K/W

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward voltage					
at $I_F = 0.1\text{mA}$	V_F	-	-	240	mV
at $I_F = 1\text{mA}$	V_F	-	-	320	mV
at $I_F = 10\text{mA}$	V_F	-	-	400	mV
at $I_F = 30\text{mA}$	V_F	-	-	500	mV
at $I_F = 100\text{mA}$	V_F	-	-	800	mV
Reverse current					
at $V_R = 25\text{V}$	I_R	-	-	2.3	μA
Reverse recovery time					
at $I_F = 10\text{mA}$, $I_R = 10\text{mA}$, $R_L = 100\Omega$	t_{rr}	-	-	4	ns



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

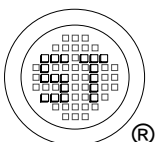
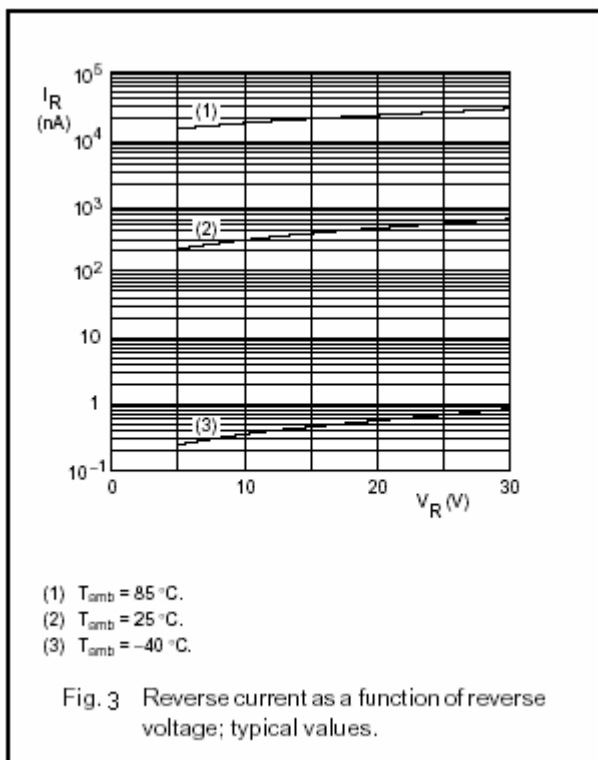
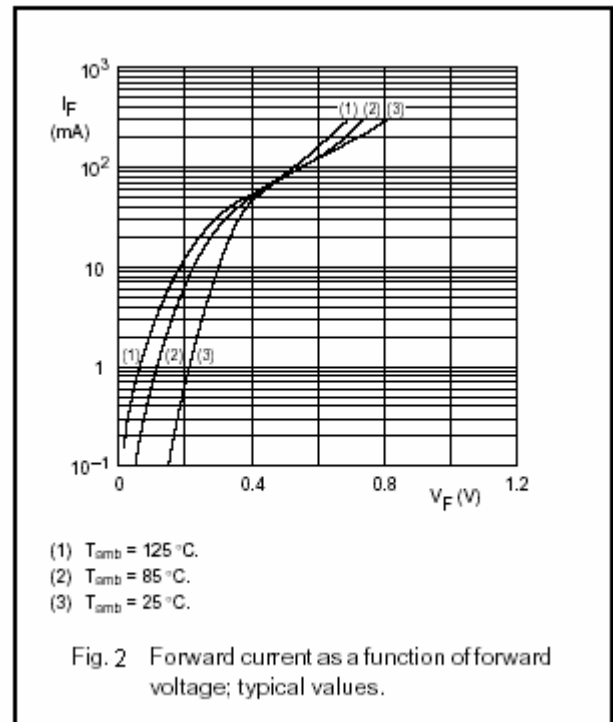
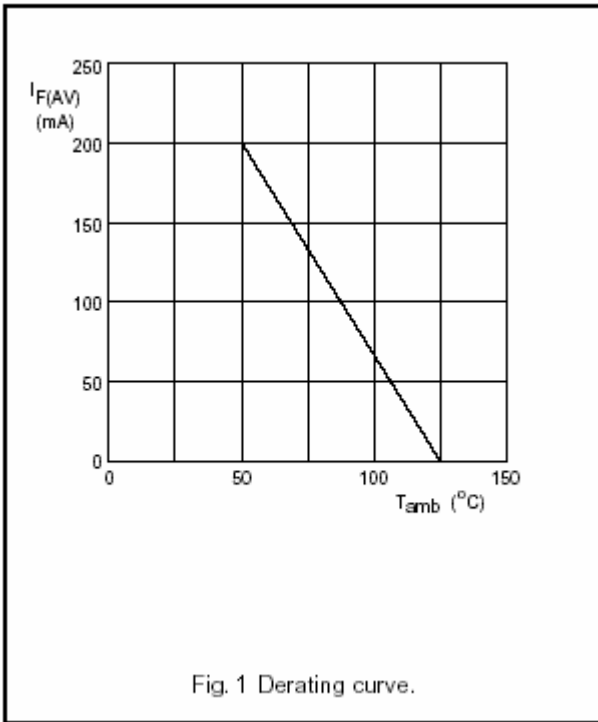


ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

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ISO/TS 16949:2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 71116



ISO 9001:2000
Certificate No. 0506098

Dated : 02/08/2005