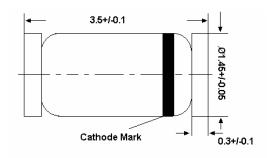
### **SCHOTTKY BARRIER DIODE**

## **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 $(T_a = 25^{\circ}C)$

Parameter	Symbol	Limits	Unit
Continuous reverse voltage	V <sub>R</sub>	30	V
Continuous forward current	I <sub>F</sub>	200	mA
Average forward current	I <sub>F(AV)</sub>	200	mA
Repetitive peak forward current	I <sub>FRM</sub>	300	mA
Non-repetitive peak forward current	I <sub>FSM</sub>	5	А
Operating ambient temperature	T <sub>amb</sub>	-65 to +125	°C
Junction temperature	T <sub>j</sub>	125	°С
Storage temperature range	Ts	-65 to +150	°С
Thermal resistance from junction to ambient	R <sub>thja</sub>	320	K/W

#### Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit
Forward voltage					
at I <sub>F</sub> = 0.1mA	$V_{F}$	-	-	240	mV
at I <sub>F</sub> = 1mA	$V_{F}$	-	-	320	mV
at I <sub>F</sub> = 10mA	$V_{F}$	-	-	400	mV
at I <sub>F</sub> = 30mA	$V_{F}$	-	-	500	mV
at I <sub>F</sub> = 100mA	V <sub>F</sub>	-	-	800	mV
Reverse current					
at $V_R = 25V$	I <sub>R</sub>	-	-	2.3	μΑ
Reverse recovery time at $I_F$ = 10mA, $I_R$	t <sub>rr</sub>	-	-	4	ns





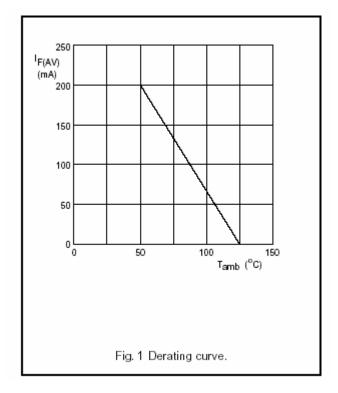


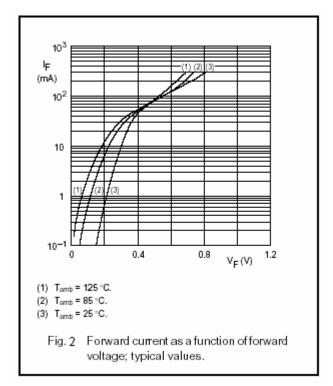


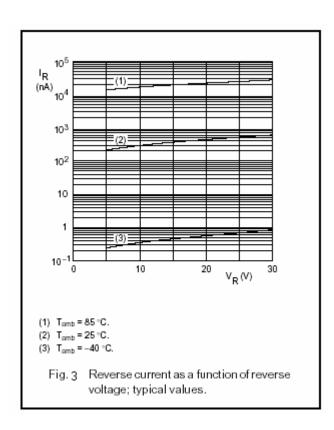




Dated: 02/08/2005









# SEMTECH ELECTRONICS LTD.







Dated: 02/08/2005