

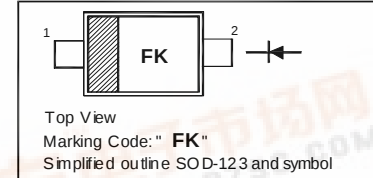
CRS01W

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Surface Mount Schottky Barrier Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Forward Current	$I_{F(AV)}$	1.0	A
Non-Repetitive Peak One Cycle Surge Forward Current at 50 Hz at 60 Hz	I_{FSM}	20 22	A
Junction Temperature Range	T_j	- 40 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 125	$^\circ\text{C}$

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

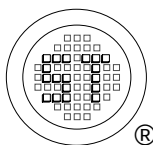
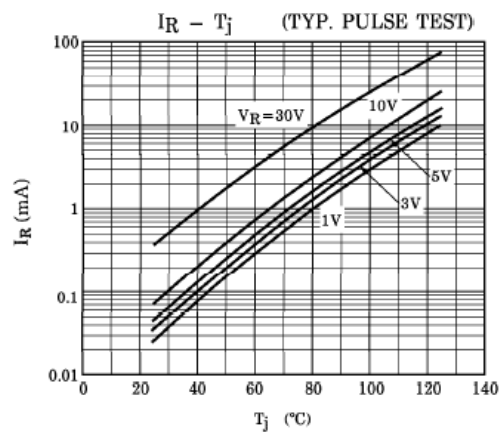
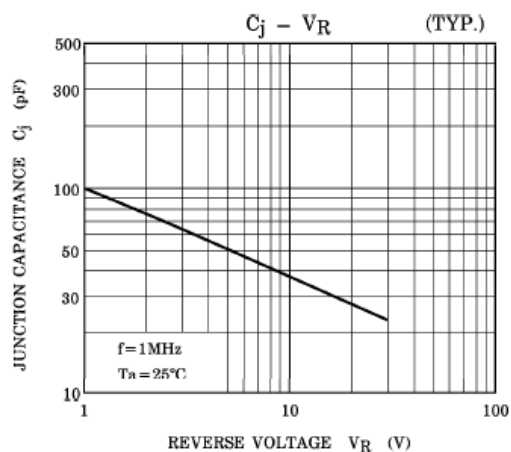
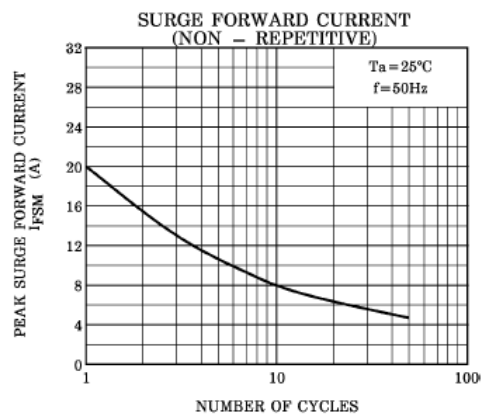
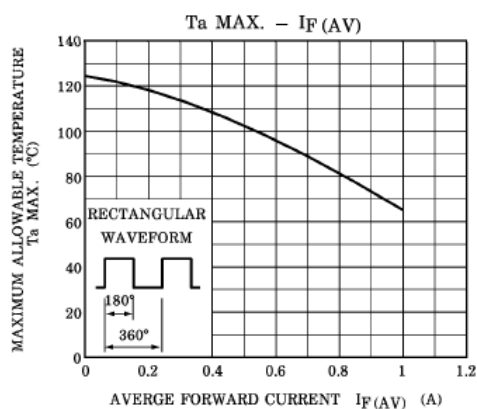
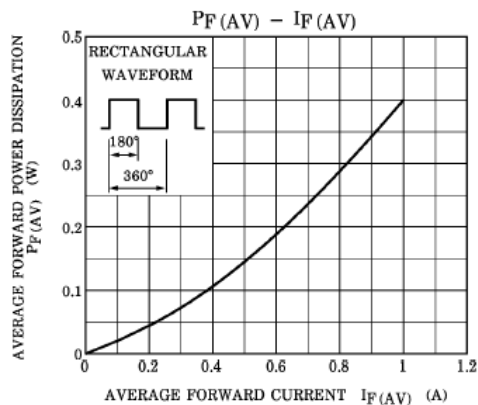
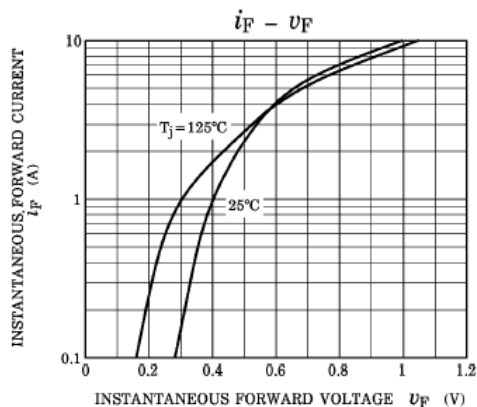
Parameter	Symbol	Typ.	Max.	Unit
Peak Forward Voltage at $I_{FM} = 0.1\text{ A}$ at $I_{FM} = 0.7\text{ A}$ at $I_{FM} = 1\text{ A}$	V_{FM}	0.25 0.33 0.36	- 0.37 -	V
Repetitive Peak Reverse Current at $V_{RRM} = 30\text{ V}$	I_{RRM}	-	1.5	mA
Junction Capacitance at $V_R = 10\text{ V}$, $f = 1\text{ MHz}$	C_j	40	-	pF

SEMTECH ELECTRONICS LTD.

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



Dated : 27/09/2010 Rev:01



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ISO/TS 16949:2002
Certificate No. 05103

ISO 14001:2004
Certificate No. 7116

ISO 9001:2008
Certificate No. 0505098

BS-ENAS 18001:2007
Certificate No. 7116

IEC QC 080000
Certificate No. FC20091051

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

