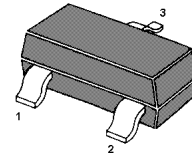
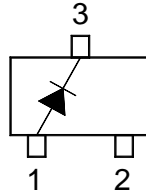


# 1SS294

## SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

### Features

- Small surface mounting type
- Low reverse current
- Low forward voltage



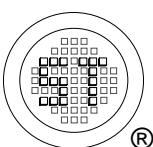
Marking Code: "XM"  
SOT-23 Plastic Package

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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	$V_{RM}$	45	V
Reverse Voltage	$V_R$	40	V
Average Forward Current	$I_O$	100	mA
Maximum Peak Forward Current	$I_{FM}$	300	mA
Power Dissipation	$P_D$	150	mW
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 125	$^\circ\text{C}$

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

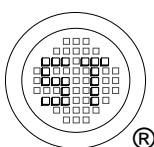
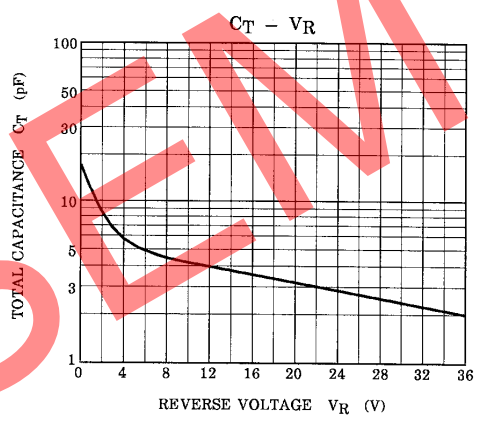
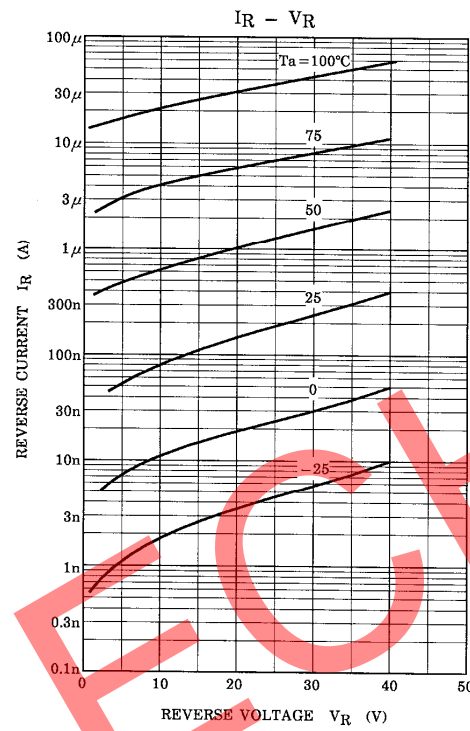
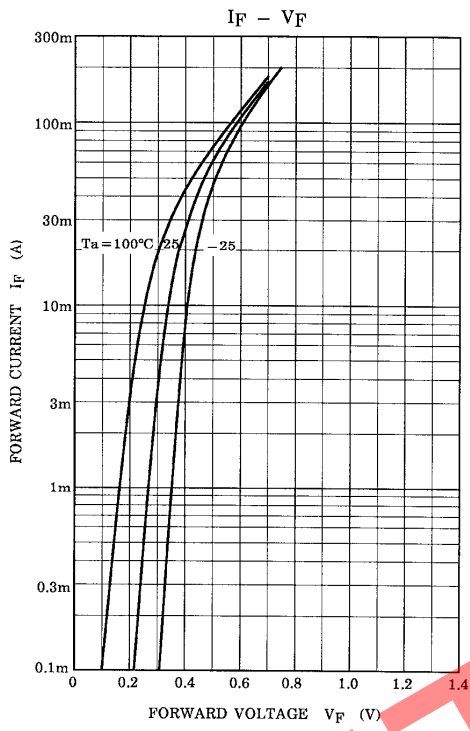
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	0.6	V
Reverse Current at $V_R = 40\text{ V}$	$I_R$	5	$\mu\text{A}$
Total Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	25	pF



**SEMTECH ELECTRONICS LTD.**  
Subsidiary of Sino-Tech International (BVI) Limited



Dated : 30/01/2007



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Dated : 30/01/2007