TOSHIBA Diode Silicon Epitaxial Schottoky Barrier Type

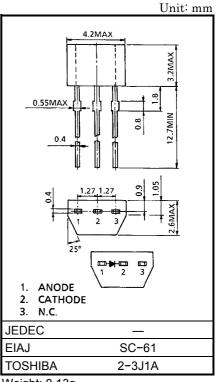
# **1SS293**

### Low Voltage High Speed Switching

• Small package

## Maximum Ratings (Ta = 25°C)

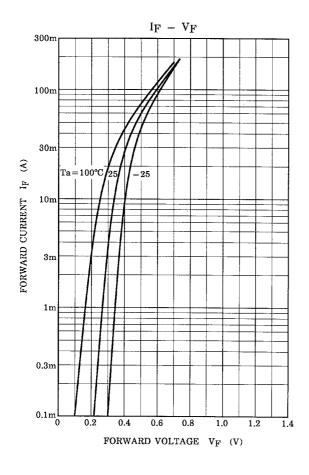
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse voltage	$V_{RM}$	45	V
Reverse voltage	V <sub>R</sub>	40	V
Maximum (peak) forward current	I <sub>FM</sub>	300	mA
Average forward current	Io	100	mA
Power dissipation	Р	300	mW
Junction temperature	Tj	125	°C
Storage temperature range	T <sub>stg</sub>	-55~125	°C

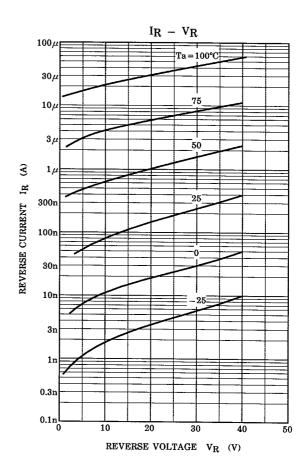


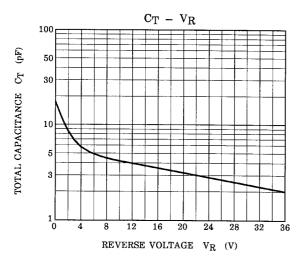
Weight: 0.13g

### **Electrical Characteristics (Ta = 25°C)**

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V <sub>F (1)</sub>	_	I <sub>F</sub> = 1mA	_	0.28	_		
	V <sub>F (2)</sub>	_	I <sub>F</sub> = 10mA	_	0.36	_	V	
	V <sub>F (3)</sub>	_	I <sub>F</sub> = 100mA	_	0.54	0.60		
Reverse current	I <sub>R</sub>	_	V <sub>R</sub> = 40V	_	_	5	μΑ	
Total capacitance	C <sub>T</sub>	_	V <sub>R</sub> = 0, f = 1MHz	_	18	25	pF	







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