TOSHIBA Diode Silicon Epitaxial Planar Type

1SS379

General Purpose Rectifier Applications

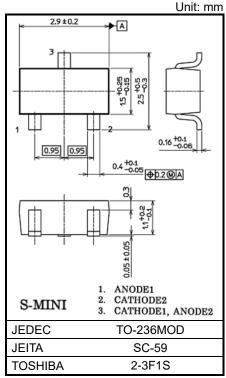
- AEC-Q101 Qualified (Note1)
- Small package
- Low forward voltage $: V_F = 1.0 V (typ.)$
- Low reverse current $I_R = 0.1 \text{ nA (typ.)}$
- Small total capacitance $: C_T = 3.0 \text{ pF} (typ.)$

Note1: For detail information, please contact our sales.

: SC-59

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V _{RM}	85	V	
Reverse voltage	VR	80	V	
Maximum (peak) forward current	IFM	300 *	mA	
Average forward current	lo	100 *	mA	
Surge current (10ms)	IFSM	2 *	A	
Power dissipation	P _D (Note 2, 4)	200	mW	
	P _D (Note 3)	150		
Junction temperature	T _j (Note 2)	150	°C	
	Tj (Note 3)	125		
Storage temperature	T _{stg} (Note 2)	-55 to 150	°C	
	T _{stg} (Note 3)	-55 to 125	C	

Absolute Maximum Ratings (Ta = 25°C)



Weight: 12 mg (typ.)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Note 2: For devices with the ordering part number ending in LF(T.

Note 3: For devices with the ordering part number in other than LF(T.

Note 4: Mounted on a FR4 board. (25.4 mm × 25.4 mm × 1.6 mm, Cu pad: 0.8 mm² × 3)

*: Unit rating. Total rating = Unit rating × 0.7.

Start of commercial production 1994-01

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	VF	IF = 100 mA	_	1.0	1.3	V
Reverse current	IR	VR = 80 V	_	0.1	10	nA
Total capacitance	CT	$V_R = 0 V$, f = 1 MH _z		3.0	6.0	pF

Equivalent Circuit (Top View)

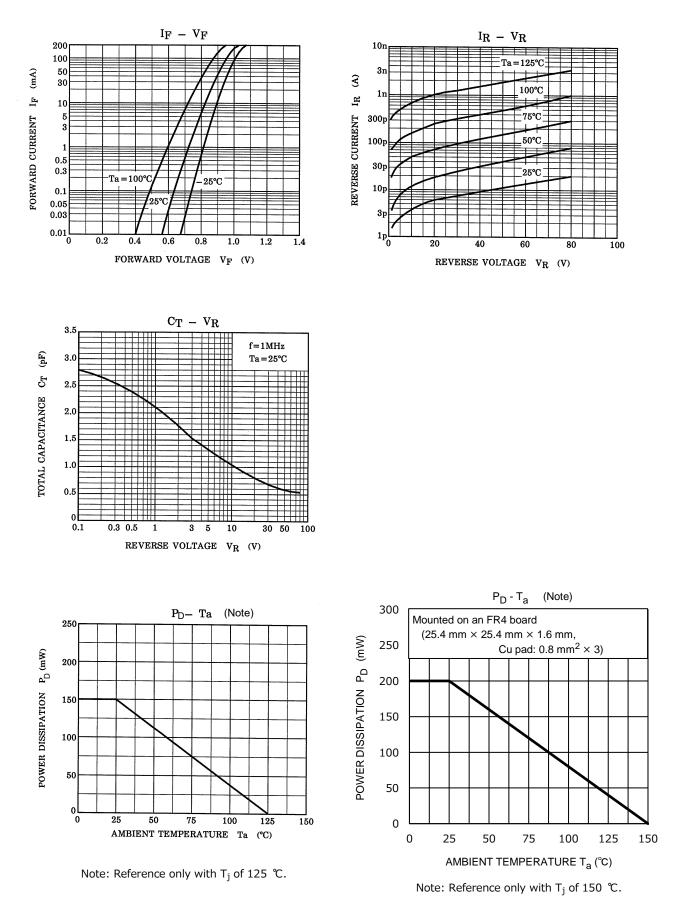






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Characteristics Curves



The above characteristics curves are presented for reference only and not guaranteed by production test, unless otherwise noted.

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