TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

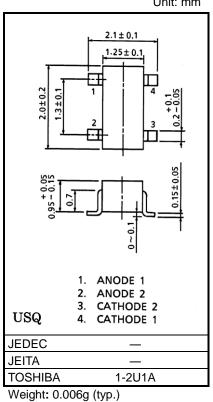
1SS383

Low Voltage High Speed Switching

- Small package
- Composed of 2 independent diodes.
- Low forward voltage: $V_F(3) = 0.54V$ (typ.)
- Low reverse current: $I_R = 5\mu A (max)$

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse Voltage	V _{RM}	45	V	
Reverse voltage	VR	40	V	
Maximum (peak) forward current	IFM	300 *	mA	
Average forward current	lO	100 *	mA	
Surge current (10ms)	IFSM	1 *	А	
Power dissipation	Р	100 *	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55 to 125	°C	
Operating temperature range	T _{opr}	−40 to 100	°C	



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).

*: Unit rating. Total rating = unit rating × 1.5

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	IF = 1mA	_	0.28	_	V
	VF (2)	IF = 10mA	-	0.36	—	V
	VF (3)	IF = 100mA	_	0.54	0.60	V
Reverse current	IR	VR = 40V		—	5	μΑ
Total capacitance	Ст	$V_R = 0$, f = 1MH _z		18	25	pF

Pin Assignment (Top View)

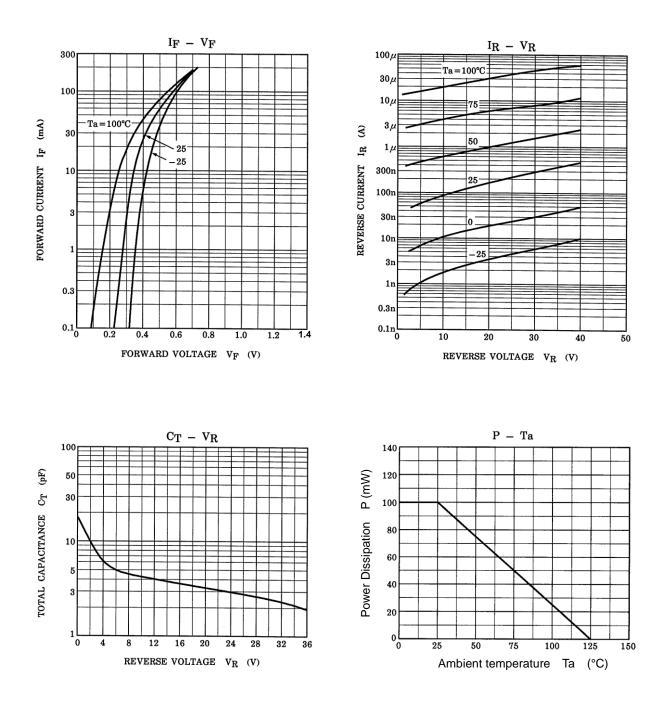


Marking



Start of commercial production 1994-09

TOSHIBA



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