TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS417

High Speed Switching Application

• Small package

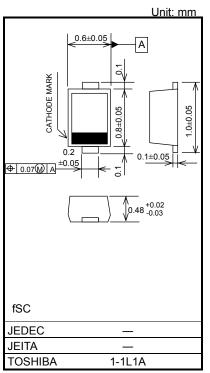
Low forward voltage: V_F (3) = 0.56V (typ.)

• Low reverse current: I_R = 5μA (Max.)

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V_{RM}	45	V	
Reverse voltage	V _R	40	V	
Maximum (peak) forward current	I _{FM}	200	mA	
Average forward current	Io	100	mA	
Surge current (10ms)	I _{FSM}	1	Α	
Power dissipation	P*	100	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	
Operating temperature range	T _{opr}	-40~100	°C	

Mounted on a glass epoxy circuit board of 20×20 mm, pad dimension of 4×4 mm.



Weight: 0.6mg(typ.)

Electrical Characteristics (Ta = 25°C)

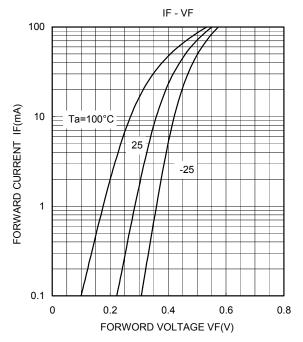
Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 1mA	_	0.28	_		
	V _{F (2)}	_	I _F = 10mA		0.36	_	V	
	V _{F (3)}	_	I _F = 50mA	_	0.56	0.62		
Reverse current	I _R	_	V _R = 40V	_	_	5	μΑ	
Total capacitance	C _T	_	V _R = 0, f = 1MH _z	-	15	_	pF	

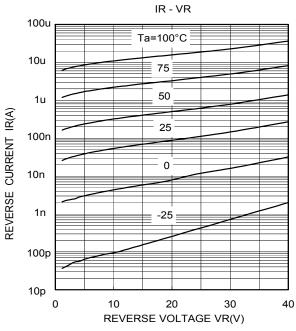
quivalent Circuit (Top View)

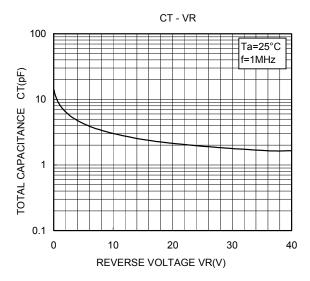


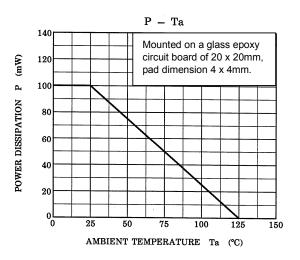
Marking











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