TENTATIVE

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TOSHIBA Diode Silicon Epitaxial Planar Type

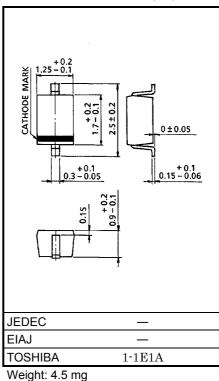
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High Voltage Switching Applications

- Two-pin small packages are suitable for higher mounting densities.
- Excellent in forward current and forward voltage characteristics $: V_{F(2)} = 0.90V (typ.)$
- Fast reverse recovery time : trr = 60ns (typ.)
- Small total capacitance $: C_T = 1.5 pF (typ.)$

Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Maximum (peak) reverse voltage	V _{RM}	250	V	
Reverse voltage	V _R	200	V	
Maximum (peak) forward current	I _{FM}	300	mA	
Average forward current	Ι _Ο	100	mA	
Surge current (10ms)	I _{FSM}	2	А	
Power dissipation	Р	200 (*)	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	



(*) When mounted on a glass epoxy board PCB: 20 mm × 20 mm, with copper pad 4 mm × 4 mm.

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Тур.	Max	Unit	
Forward voltage	V _{F (1)}	_	I _F = 10mA		0.72	1.0	V	
	V _{F (2)}	-	I _F = 100mA		0.90	1.2	v	
Reverse current	I _{R (1)}	-	V _R = 50V		_	0.1		
	I _{R (2)}	-	V _R = 200V		_	1.0	μΑ	
Total capacitance	CT	_	V _R = 0, f = 1MHz	_	1.5	3.0	pF	
Reverse recovery time	t _{rr}	—	I _F = 10mA (Fig. 1)		10	60	ns	

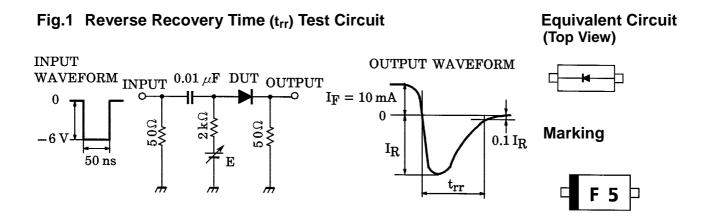
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Unit in mm



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