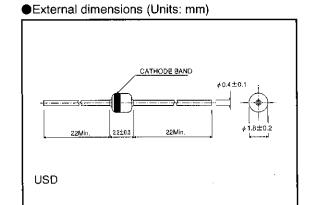
High-Speed Switching Ultra Mini Diode

Applications

High speed switching

- Features
- 1)Glass sealed envelope (USD)
- 2)Small pitch enables insertion on PCBs
- 3)High reliability
- 4) High speed (trr=1.5ns Typ.)
- ■Construction

Silicon epitaxial planar



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Peak reverse voltage	VRM	90	V	
DC reverse voltage	VR	80	. V	
Peak forward current	lгм	400	mA	
Mean rectifying current	lo	130	mA mA	
Surge current (1s)	Surge	600		
Power dissipation	Р	250	mW	
Junction temperature	Τj	175	c	
Storage temperature	Tstg	− 65~175	င်	

Cathode band colors

Туре	Color		
1SS254	Yellow		

Fig. 3 Capacitance between

terminals characteristic

Switching diodes

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	_	0.92	1.2	V	I==100mA
Reverse current	la la	_	0.010	0.5	μA	V _R =35V
Capacitance between terminals	Ст	_	1.55	3	pF	V _B =0.5V, f=1MHz
Reverse recovery time	t rr] –	1.5	4	ns	V _R =6V, I _F =10mA, R _L =50Ω

●Electrical characteristic curves (Ta=25°C)

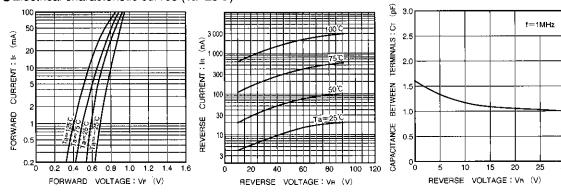


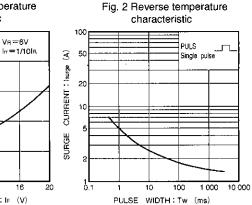
Fig. 1 Forward temperature characteristic

(su

TIME: tr

RECOVERY

REVERSE

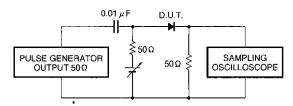


FORWARD CURRENT : IF (V)

Fig. 4 Reverse recovery time characteristic

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Fig. 5 Surge current characteristic



Reverse recovery time (trr) measurement circuit

Notes

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