



Micro Commercial Components



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1SS133

High Speed Switching Diode

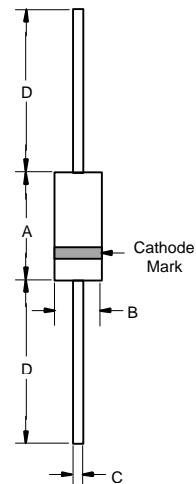
Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Glass sealed envelope.
- High speed. ($t_{rr}=1.2\text{ns Typ}$)
- High reliability.
- Silicon epitaxial planar
- Marking : Cathode band and type number
- Moisture Sensitivity Level 1

Absolute maximum Ratings

Symbol	Rating	Rating	Unit
V_{RM}	Peak Reverse Voltage	90	V
V_R	DC Reverse Voltage	80	V
I_{FM}	Peak Forward Current	400	mA
I_o	Mean Rectifying Current	130	mA
I_{surge}	Surge Current (1s)	600	mA
P_D	Power Dissipation	300	mW
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\text{C}$

DO-35



Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V_F	Forward Voltage ($I_F=100\text{mA dc}$)	---	1.2	Vdc
I_R	Reverse Current ($V_R=80\text{Vdc}$)	---	0.5	$\mu\text{A dc}$
C_T	Capacitance Between Terminals ($V_R=0.5\text{Vdc}$, $f=1.0\text{MHz}$)	---	2.0	pF
t_{rr}	Reverse Recovery Time ($V_R=6.0\text{Vdc}$, $I_F=10\text{mA dc}$, $R_s=50\Omega$)	---	4.0	ns

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

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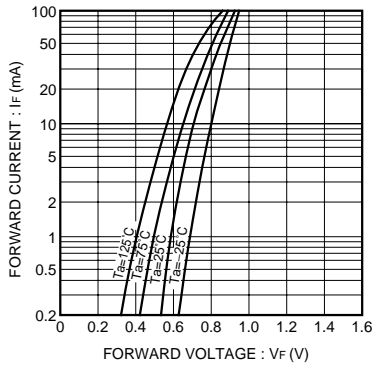


Fig. 1 Forward characteristics

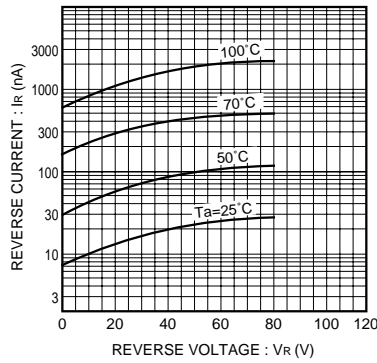


Fig. 2 Reverse characteristics

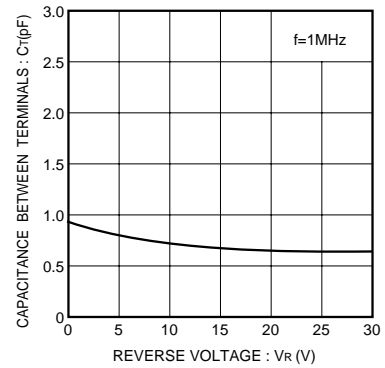


Fig. 3 Capacitance between terminals characteristics

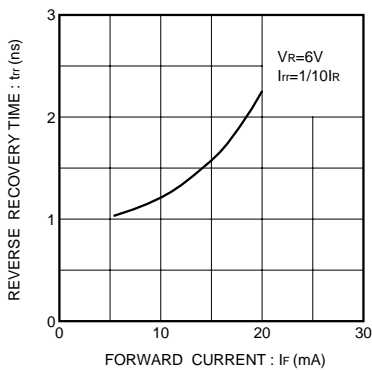


Fig. 4 Reverse recovery time characteristics

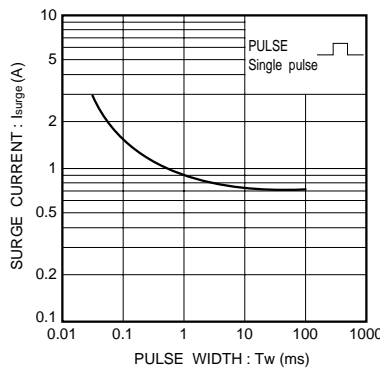


Fig. 5 Surge current characteristics

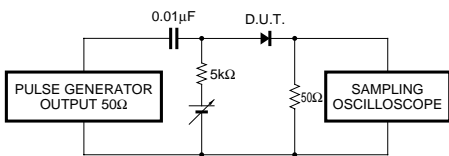


Fig. 6 Reverse recovery time (t_{rr}) measurement circuit



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/AmmoBox
Part Number-BP	Bulk: 100Kpcs/Carton

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