

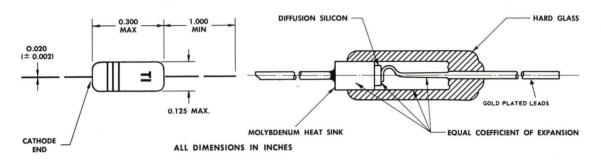


80 to 175 VOLTS PIV

Ruggedized to meet stringent military requirements Designed for • fast recovery • higher conductance • low capacitance

mechanical data

Hard glass hermetically sealed case with gold-to-gold contact. Unit weight is 0.195 gram.



maximum ratings

liaximum ratings		1N643	1N662	1N663	
PIV	Peak Inverse Voltage at -65 to +150°C	175	80	80	v
IO	Average Rectified Forward Current at +25°C	40	40	60	mA
IO	Average Rectified Forward Current at +150°C	20	20	35	mA
iI	Recurrent Peak Forward Current at +25°C	175	175	225	mA
TA	Operating Temperature, Ambient		65 to +150		
	Altitude		ft		

specifications

VZ	Saturation Voltage at 100 µa	200	100	100	v
LIb	Maximum Reverse Current at 100v at +25°C	1	20@50v	5 @ 75v	μA
LIb	Maximum Reverse Current at 100v at +100°C	15	100 @ 50v	50@75v	μA
Eb	Maximum Voltage Drop at $I_O = 100 \text{ mA}$ at 25°C	1		1	v
Eb	Maximum Voltage Drop at $I_O = 10 \text{ mA at } 25^{\circ}\text{C}$		1		v
trr	Maximum Reverse Recovery Time*	. 3*	. 5**	. 5*	µsec
С	Typical Capacitance at -10v at 1 mc	2.7	2.7	2.7	μμfd

*Recovery time to 200K when switched from 5mA forward current to -40. Measurement made with a Hauman ND-1 standard pulse recovery test set approved by JETEC-14 and described in JAN-256.

**Recovery time to 100K when switched from 5mA forward current to -40. Measurement made with a Hauman ND-1 standard pulse recovery test set approved by JETEC-14 and described in JAN-256.

LICENSED UNDER BELL SYSTEM PATENTS

NTS

EXPRESSWAY

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SEMICONDUCTOR-COMPONENTS DIVISION

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