TYPES 1N659, 1N660 AND 1N661

DIFFUSED SILICON HIGH POWER COMPUTER DIODES



0.3 μ sec. Maximum Recovery Time 50 to 200 VOLTS PIV

100 mA average rectified forward current

Ruggedized to meet stringent military requirements

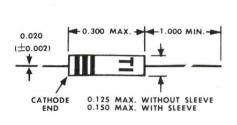
Designed for • fast recovery • higher conductance

• low capacitance

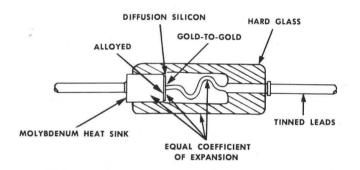


mechanical data

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



ALL DIMENSIONS IN INCHES



1N660

1N661

maximum ratings

Operating Temperature, Ambient	TA					
Recurrent Peak Forward Current at +25°C	iı	320	320	320	mA	
Average Rectified Forward Current at +150°C	10	30	30	30	mA	
Average Rectified Forward Current at +25°C	10	100	100	100	mA	
Peak Inverse Voltage at −65 to +150°C	PIV	50	100	200	V	

1N659

specifications

Minimum Breakdown Voltage at +100°C	V_{Z}	60	120	240	V
Maximum Reverse Current at PIV at +25°C	LIb	5	5	10	μA
Maximum Reverse Current at PIV at $+100$ °C	LIb	25	50	100	μ A
Maximum Voltage Drop at I ₀ = 6mA at 25°C	Eb	1	1	1	V
Maximum Reverse Recovery Time*		0.3	0.3	0.3	μsec
Typical Capacitance at -10V at 1 mc	С	2.7	2.7	2.7	$\mu\mu$ fd

^{*} Recovery time to 400K when switched from 30 mA forward current to —35V. 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

IN ORDER TO SUPPLY THE BEST PRODUCTS POSSIBLE, TEXAS INSTRU-MENTS RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME.

SEMICONDUCTOR-COMPONENTS DIVISION