

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N4942 THRU 1N4948

FAST RECOVERY

GLASS PASSIVATED RECTIFIER

1.0 AMP, 200-1000 VOLTS

GPR-1A CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4942 Series types are Silicon Rectifiers mounted in a hermetically sealed, glass passivated package designed for general applications where Fast Reverse Recovery times and high reliability is desired.

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

SYMBOL	1N4942	1N4943	1N4944	1N4945	1N4946	1N4947	1N4948	UNIT
V _{RRM}	200	300	400	500	600	800	1000	V
V _R	200	300	400	500	600	800	1000	V
V _R (RMS)	140	210	280	350	420	560	700	V
I _O (T _A =55°C)				1.0				A
I _{FSM}				50				A
T _J , T _{stg}				-65 TO +200				°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I _R	V _R =Rated V _{RRM}		1.0	μA
V _F	I _F =1.0A		1.3	V
C	V _R =12V, f=1.0MHz		45	pF
t _{rr}	I _F =0.5A, I _R =1.0A, Recov. to 0.25A (1N4942-1N4945)		150	ns
t _{rr}	I _F =0.5A, I _R =1.0A, Recov. to 0.25A (1N4946, 1N4947)		250	ns
t _{rr}	I _F =0.5A, I _R =1.0A, Recov. to 0.25A (1N4948)		500	ns

