

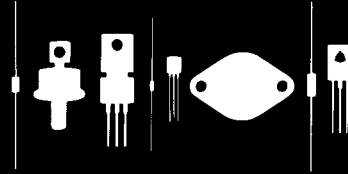
Central Semiconductor Corp.

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145 Adams Avenue
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CPR6V SERIES

VERY FAST RECOVERY RECTIFIER

GLASS PASSIVATED RECTIFIER CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CPR6V series types are Silicon Very Fast Recovery Rectifiers manufactured using the epitaxial process and mounted in a Glass Passivated (hermetically sealed) case to ensure high reliability and rigid mechanical support. This series of Rectifiers is designed for applications requiring extremely fast reverse recovery times.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CPR6V-005	CPR6V-010	CPR6V-015	CPR6V-020	CPR6V-025	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	150	200	250	V
DC Blocking Voltage	V_R	50	100	150	200	250	V
RMS Reverse Voltage	$V_R(\text{RMS})$	35	70	105	140	175	V
Average Forward Current ($T_A=70^\circ\text{C}$)	I_O			6.0			A
Peak Forward Surge Current	I_{FSM}			150			A
Operating and Storage Junction Temperature	T_J, T_{stg}			-65 TO +175			$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_R	$V_R=\text{Rated } V_{RRM}$		5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=150^\circ\text{C}$		50	μA
V_F	$I_F=\text{Rated } I_O$		0.925	V
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, \text{Recov. to } 0.25\text{A}$		30	ns

