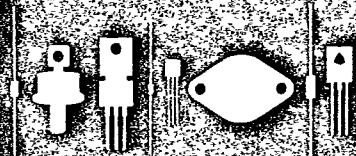


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CN5823 SERIES *P*

SCHOTTKY BARRIER RECTIFIERS
5.0 AMP, 20 THRU 40 VOLTS

CASE 103

DESCRIPTION

The CENTRAL SEMICONDUCTOR CN5823 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using a metal to silicon junction to yield low forward voltage drop and instantaneous reverse recovery times.

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

	SYMBOL	CN5823	CN5824	CN5825	UNIT
Peak Repetitive Voltage	V_{RRM}	20	30	40	V
DC Blocking Voltage	V_R	20	30	40	V
RMS Reverse Voltage	$V_R(RMS)$	14	21	28	V
Average Forward Current ($T_L=100^\circ\text{C}$)	I_O		5.0		A
Peak Forward Surge Current	I_{FSM}		250		A
Operating and Storage Junction Temperature	T_J, T_{STG}	-65 TO +150			$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_R	$V_R=\text{Rated } V_{RRM}$		10	mA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$		100	mA
V_F	$I_F=3.0\text{A}$		0.42	V
V_F	$I_F=5.0\text{A}$		0.45	V
V_F	$I_F=15.7\text{A}$		0.625	V