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Manufacturers of World Class Discrete Semiconductors

CRSH25-2
THRU
CRSH25-6

SCHOTTKY BARRIER RECTIFIER
25 AMPS, 20 TO 60 VOLTS

JEDEC DO-4 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH25-2 series types are schottky barrier rectifiers mounted in a hermetically sealed metal stud package, featuring a low forward voltage drop and instantaneous reverse recovery time.

MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$)

	SYMBOL	CRSH 25-2	CRSH 25-3	CRSH 25-4	CRSH 25-5	CRSH 25-6	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	V
DC Blocking Voltage	V_R	20	30	40	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V
Average Forward Current ($T_C = 150^\circ\text{C}$)	I_O				25		A
Peak Forward Surge Current (8.3ms pulse)	I_{FSM}				800		A
Operating and Storage							
Junction Temperature	T_J, T_{stg}			-55 to +175			$^\circ\text{C}$
Thermal Resistance	θ_{JC}				1.8		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R = \text{Rated } V_{RRM}$		2.0	mA
I_R	$V_R = \text{Rated } V_{RRM}, T_C = 150^\circ\text{C}$		150	mA
V_F	$I_F = 25\text{A}$		0.58	V
V_F	$I_F = 25\text{A}, T_C = 175^\circ\text{C}$		0.53	V