

TECHNICAL DATA
DATA SHEET 5190, REV. A

HERMETIC ULTRAFAST RECTIFIER
SINGLE / DUAL - COM. CATHODE / COM. ANODE / DOUBLER

DESCRIPTION: 200 VOLT, 20 AMP, 35 NANOSECOND HERMETIC RECTIFIERS IN A TO-258 PACKAGE.
Ceramic Seal Option – For ceramic seals use part number prefix SHDC

MAX RATINGS / ELECTRICAL CHARACTERISTIC

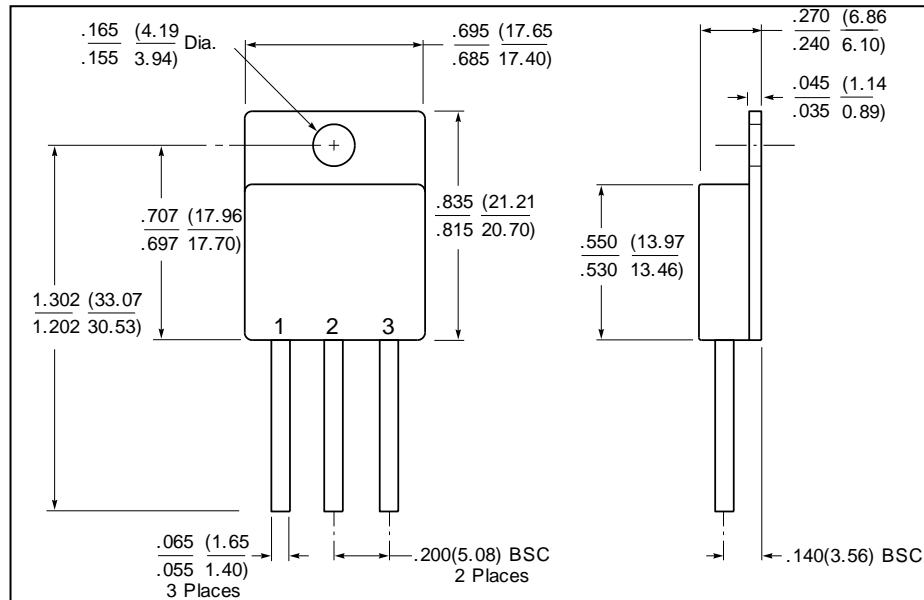
ALL RATINGS ARE AT $T_A = 25^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	200	Volts
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) ($I_f = 20\text{ A}$)			
(Single)		1.1	
(P)	V_f	1.1	Volts
(N)		1.2	
(D)		1.2	
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 125^{\circ}\text{C}$ (PER LEG) ($I_f = 20\text{ A}$)			
(Single)	V_f	1.0	Volts
(P)		1.0	
(N)		1.1	
(D)		1.1	
MAXIMUM DC OUTPUT CURRENT ($T_C = 100^{\circ}\text{C}$)	I_O	20	Amps
PEAK SINGLE CYCLE SURGE CURRENT (PER LEG) $t_p = 8.3\text{ msec}$	I_{FSM}	250	Amps
MAXIMUM REVERSE RECOVERY TIME (PER LEG) @ $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$	t_{rr}	35	nsec
MAXIMUM REVERSE CURRENT I_{RM} @ PIV (PER LEG) @ $T_A = 25^{\circ}\text{C}$	I_{RM}	20	μA
MAXIMUM REVERSE CURRENT I_{RM} @ PIV (PER LEG) @ $T_A = 125^{\circ}\text{C}$	I_{RM}	1.0	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	2.0	$^{\circ}\text{C}/\text{W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-55 to +150	$^{\circ}\text{C}$

SENSITRON

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MECHANICAL DIMENSIONS: In Inches / mm



TO-258

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER/COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER/COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER/DOUBLER (D)	ANODE	ANODE/ CATHODE	CATHODE

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