TECHNICAL DATA
DATA SHEET 4983, REV. –

HERMETIC ULTRAFAST RECTIFIER

DUAL - COM. CATHODE / COM. ANODE / DOUBLER

DESCRIPTION: 600 VOLT, 45AMP, 90 NS HERMETIC RECTIFIER IN A TO-259AA PACKAGE.

MAX RATINGS/ELECTRICAL CHARACTRISTIC ALL RATINGS ARE AT T_A = 25 C) UNLESS OTHERWISE SPECIFIED

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	600	Volts
MAXIMUM FORWARD VOLTAGE DROP @ T_A = 25° C (PER LEG) COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) (I_f = 22 Amps)	V_f	1.7 2.0	Volts
MAXIMUM FORWARD VOLTAGE DROP @ T_A = 25° C (PER LEG) COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) (I_f = 45 Amps)	V_f	2.0 2.3	Volts
MAXIMUM FORWARD VOLTAGE DROP @ T_A = 125° C (PER LEG) COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) (I_f = 22 Amps)	V_f	1.5 1.8	Volts
MAXIMUM DC OUTPUT CURRENT PER PACKAGE (T_C = 100 ^{O}C)	I_O	45	Amps
PEAK SINGLE CYCLE SURGE CURRENT PER LEG t_p = 8.3 msec	I_{FSM}	225	Amps
MAXIMUM REVERSE RECOVERY TIME I_f = 22A, di/dt = 200A/µs, V_R = 200V	t_{rr}	90	nsec
MAXIMUM REVERSE RECOVERY CURRENT I_f = 22A, di/dt = 200A/µs, V_R = 200V	I_{RM}	9	A
MAXIMUM REVERSE RECOVERY CHARGE I_f = 22A, di/dt = 200A/µs, V_R = 200V	Q_{RR}	405	nC
MAXIMUM REVERSE CURRENT I_{rr} @ 600V (PER LEG) @ T_A = 25°C	I_{rr}	10	µA
MAXIMUM REVERSE CURRENT I_{rr} @ 480V (PER LEG) @ T_A = 125°C	I_{rr}	1	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R\theta_{JC}$	1.2	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65 to +150	°C

SHD307901P
SHD307901N
SHD307901D

SENSITRON
SEMICONDUCTOR

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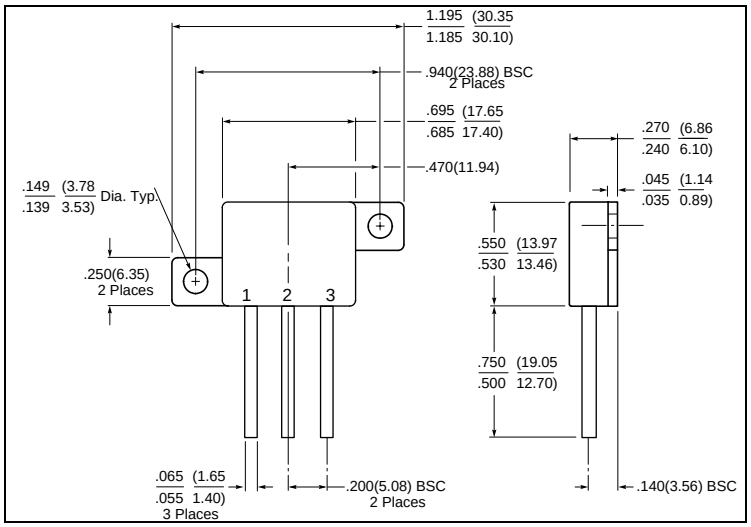
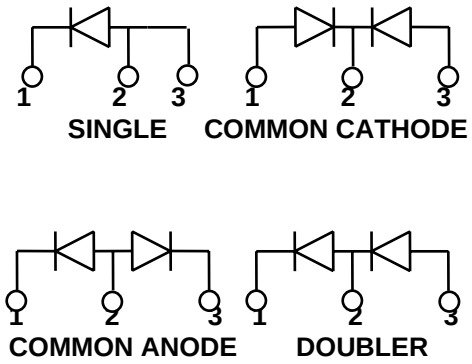
MECHANICAL DIMENSIONS: In Inches / mm





TO-259

PINOUT TABLE

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
DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

Ordering options:
For ceramic eyelets, please order SHDC307901x.

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