SHA2604R THROUGH SHA2607R

30 AMP

ULTRA FAST RECOVERY COMMON ANODE CENTERTAP RECTIFIER

200 - 500 VOLTS

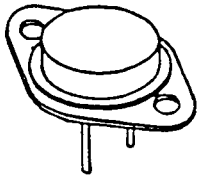
X00287

SSDI

14849 FIRESTONE BLVD.
LA MIRADA, CA 90638
TEL: (213) 921-9660
FAX: (213) 921-2396

CASE STYLE

JEDEC TO-3 with .060 PINS



FEATURES

- COMBINED PERFORMANCE OF TWO DO-4 DISCRETES
- PIV TO 500 VOLTS
- ULTRA FAST RECOVERY, 35ns TYPICAL
- HERMETICALLY SEALED
- SUPERIOR THERMAL RESTISTANCE
- GOLD EUTECTIC DIE ATTACH, NO SOLDER USED
- ALUMINUM ULTRASONIC WIRE BOND
- REPLACES UES2604 THROUGH UES2606

MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage Per Leg and DC Blocking Voltage Per Leg	VRM(rep) VR		Volts
SHA2604		200	
SHA2605		300	
SHA2606		400	
SHA2607		500	
RMS Reverse Voltage Per Leg	Vr		Volts
SHA2604		140	
SHA2605		210	
SHA2606		280	
SHA2607		350	
Half Wave Rectified Forward Current Averaged Over Full Cycle (Resistive Load, 60Hz, Sine Wave, TC=55 °C)	IO	30	Amps
Peak Repetitive Forward Current (TC=55 °C, 8.3ms Pulse, Allow Junction to Reach Equlibriun Between Pulses)	IFM(rep)	120	Amps
Peak Surge Current (TC=55 °C, 8.3ms Pulse, Superimposed on Rated Current at Rated Voltage)	IFM(surge)	350	Amps
Operating and Storage Temperature	TJ, Tstg	-65 to +200	°C

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Thermal Resistance, Junction to Case Both legs tied together	RθJC	1.6	°C/W

Note: All specifications subject to change without notice.

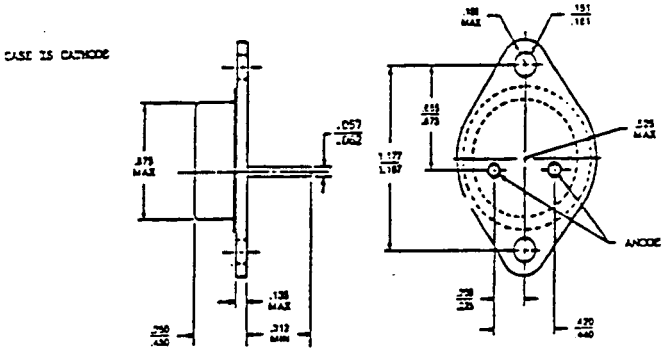
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Max Full Cycle Forward Voltage Drop, Averaged Over Full Cycle Per Leg (IO(MAX).60Hz,Square Wave, TC=55 °C)	VF(AV)	Ø.65	Vdc
Max Instantaneous Forward Voltage Drop Per Leg (IF=15 Adc, TJ = 25 °C, 3ØØ µs Pulse) (IF=15 Adc, TJ =125 °C, 3ØØ µs Pulse)	VF	1.5 1.4	Vdc
Max Full Cycle Reverse Leakage Current Averaged Over Full Cycle Per Leg (8Ø% of Rated VR, 6Ø Hz, Square Wave, TC= 1ØØ °C)	IR(AV)	5	mAdc
Max Reverse Leakage Current Per Leg (8Ø% of Rated VR, TC=25 °C)	IR	5Ø	µAdc
Max Junction Capacitance Per Leg (VR = 1ØV, TC=25 °C)	CJ	25Ø	pf

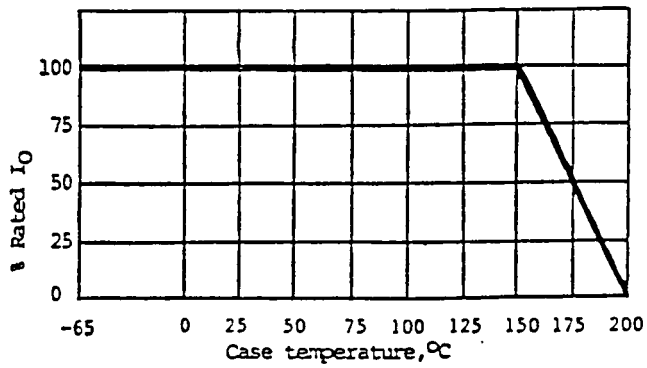
REVERSE RECOVERY CHARACTERISTICS

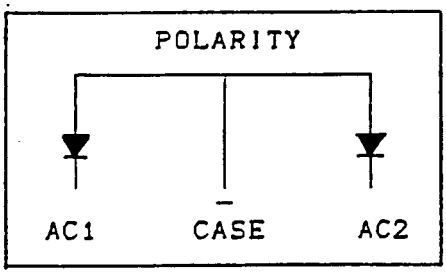
CHARACTERISTIC	SYMBOL	MIN	TYP	MAX	UNIT
Reverse Recovery Time Per Leg (IF=5ØØmA, IR=1A, IRR=25Ømà)	trr	--	35	5Ø	ns

PHYSICAL DIMENSIONS



TYPYCAL OPERATING CURVES





SSDI SOLID STATE DEVICES, INC.
14849 FIRESTONE BOULEVARD, LA MIRADA, CA 9Ø638
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