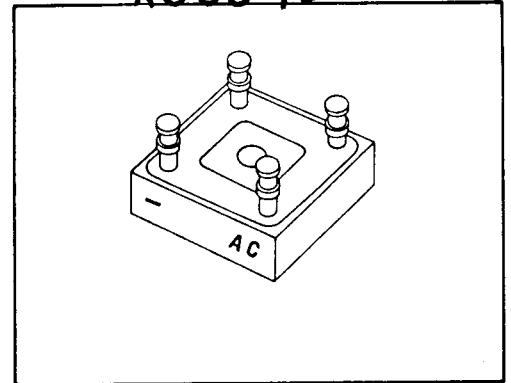


# ULTRA FAST SDA18A THRU G 35 AMP RECTIFIER ASSEMBLY

X00095

- ULTRA FAST RECOVERY 50 ns MAX
- CURRENT RATINGS: TO 35 AMPS
- SURGE CURRENT: TO 300 AMPS
- PIVS FROM 200V to 800V
- OPERATING & STORAGE TEMPERATURE RANGE  
-65°C TO +150°C
- THERMAL RESISTANCE JUNCTION TO CASE  
1.5°C/W MAX
- ALUMINUM HEAT SINK CASE
- ELECTRICALLY INSULATED FROM CASE
- HERMETICALLY SEALED VOID FREE RECTIFIER CELLS



This series of single phase bridges offers the highest efficiency possible at rated current and voltages. This series replaces four DO-4 rectifiers, simplifying installation and reducing heat sink requirements. This series of military and industrial high-current single-phase bridges offers the utmost in reliability as required in military system designs. The TX series is assembled with diodes which have been subjected to 100% screening tests.

Type	PIV per leg	Sine Wave RMS input Voltage Max.	Average DC Output Amps TC : (case temp.)		Reverse * Recovery Time T <sub>rr</sub> Max	Average DC Output Amps TA = Ambient Temp (No heat Sink)		Peak 1 Cycle Forward Surge	Peak Recurrent Forward	VF Max per leg @10 ADC	Reverse Current (I <sub>R</sub> Max. per leg. @ PIV)	
			50°C	100°C		25°C	55°C				25°C	100°C
	VOLTS	VOLTS	AMPS	AMPS	ns	AMPS	AMPS	AMPS	AMPS	VOLTS	UA	UA
SDA18A	200	140	35	25	50	12	10	300	150	1.3	20	1000
SDA18B	300	210	35	25	50	12	10	300	150	1.3	20	1000
SDA18C	400	280	35	25	50	12	10	300	150	1.3	20	1000
SDA18D	500	350	35	25	50	12	10	300	150	1.3	20	1000
SDA18E	600	420	35	25	50	12	10	300	150	1.3	20	1000
SDA18F	700	490	35	25	50	12	10	300	150	1.5	20	1000
SDA18G	800	560	35	25	50	12	10	300	150	1.5	20	1000

NOTE: Specifications Subject to Change Without Notice

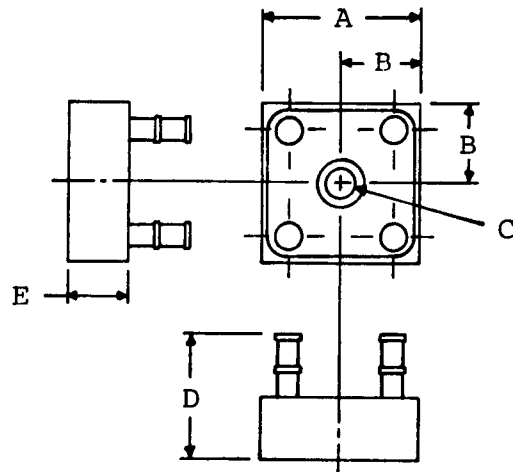
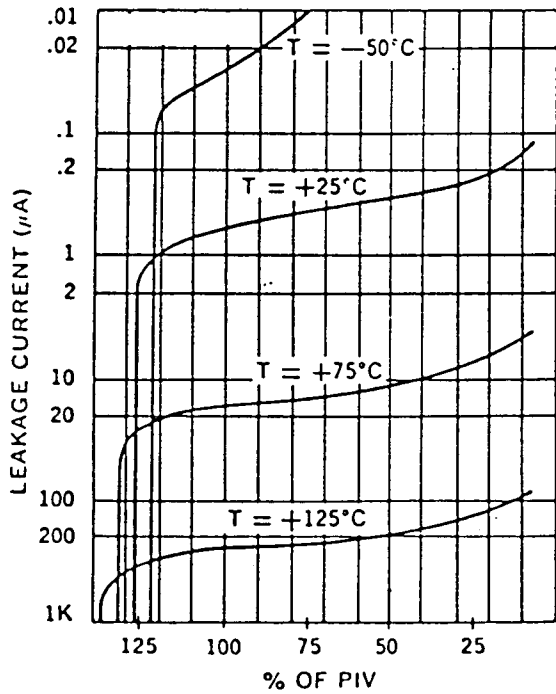
\*Recovery Conditions: I<sub>F</sub> = 0.5 Amp, I<sub>R</sub> = 1.0 Amp rec to .25 Amp

**SSDI** SOLID STATE DEVICES, INC.

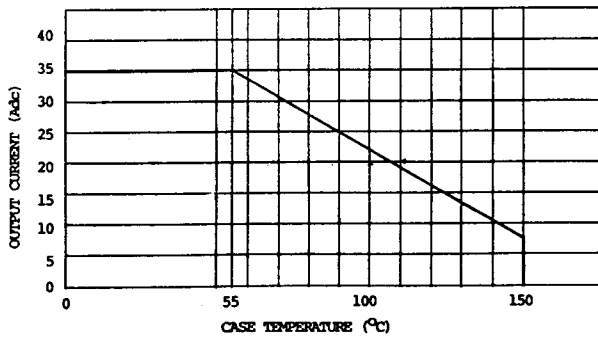


APPLICATION NOTES

Typical Leakage Current vs. PIV



CURRENT DERATING CURVE



	ins.	mm.
A	1.115-1.135	28.32-28.83
B	.552-572	14.02-14.53
C	.180-.200 DIA	4.57-5.08 DIA
D	1.0 MAX.	19.05 MAX.
E	.437±.02	10.59 to 11.61

