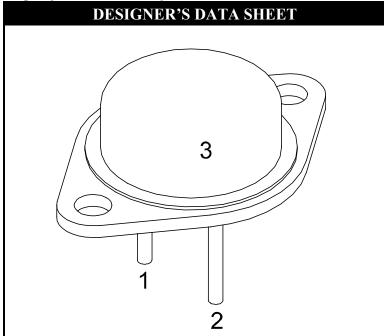


Solid State Devices, Inc.

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SHA2952TX

20A 35nsec 400 V **Hyper Fast Positive Centertap** Rectifier

Features:

- Hyper Fast Recovery: 35nsec Maximum
- **High Surge Rating**
- Low Reverse Leakage Current
- **Low Junction Capacitance**
- **Hermetically Sealed**
- **Eutectic Die Attach**
- **Enhanced Replacement for UES2604-06 series**
- High Reliability Device, Screened to 25 Temperature Cycles (-55 to +175°C) and 48 hrs of HTRB (320V, 150°C)

Maximum Ratings, per leg		Symbol	Value	Units
Peak Repetitive Reverse Voltage		V_{RRM}	400	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, T _C = 100 °C)	Total	Io	20	Amps
Peak Surge Current ^{1/} (8.3 ms Pulse, Half Sine Wave, T _A = 25 °C)		I_{FSM}	200	Amps
Operating & Storage Temperature		T _{OP} & T _{STG}	-65 to +200	°C
Maximum Total Thermal Resistance Junction to Case	Per Leg Both Legs Tied	$R_{ heta JC}$	2.4 1.2	°C/W

SHA2952TX HiRel Screening per MIL-PRF-19500, Table IV, JANTX level:

- Temperature Cycling i.a.w. MIL-STD-750 Method 1051 Condition C
- High Temperature Reverse Bias i.a.w. MIL-STD-750 Method 1038, 48 hrs minimum
- Hermeticity i.a.w. MIL-STD-750 Method 1071

Notes: 1/ per leg



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Electrical Characteristic, per leg		Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop $(I_F = 15A, Pulse)$	$T_A = 25$ °C	V_{F1}	_	1.25	V_{DC}
Instantaneous Forward Voltage Drop (I _F = 15A, Pulse)	$T_A = 125 {}^{\circ}\text{C}$	V_{F2}	_	1.15	V _{DC}
Reverse Leakage Current (100% of rated V _R , Pulse)	$T_A = 25$ °C $T_A = 100$ °C	I_{R1} I_{R2}	_	50 10	μA mA
Reverse Recovery Time $(I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A, T_A = 25^{\circ}C)$		t _{RR}	_	35	nsec
Junction Capacitance (V _R = 10V _{DC} , T _A = 25°C, f = 1MHz)		C_{J}	_	80	pF

NOTES: <u>1</u>/ For Ordering Information, Price, and Availability Contact Factory.

Available Part Numbers:	PIN ASSIGNMENT				
	PACKAGE	Pin 1	Pin 2	Case	
SHA2952TX	ТО-3	Anode 1	Anode 2	Cathode	

