



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638

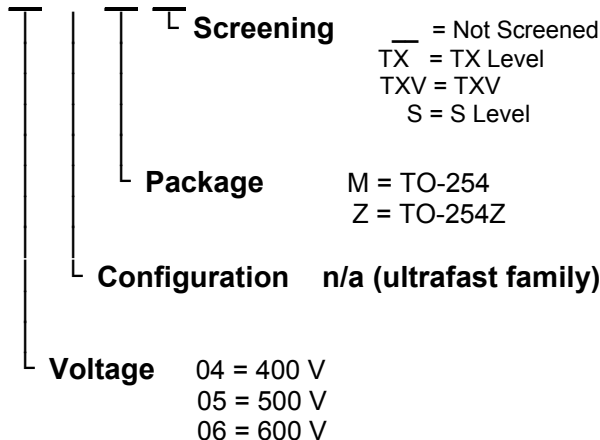
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DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

SDR30



SDR3006 series

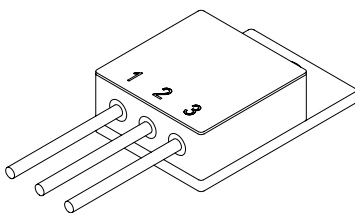
30A 80nsec
400 to 600 V
Ultrafast Rectifier

Features:

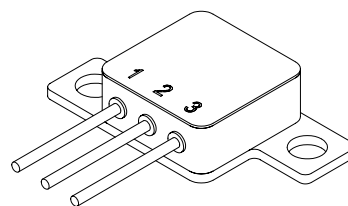
- Ultrafast Recovery: 100nsec Maximum
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed, Isolated Package providing enhanced thermal performance
- Eutectic Die Attach
- TX, TXV, and S Level Screening iaw MIL-PRF-19500 Available
- hyperfast version available as SDR3006HF

Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse Voltage	SDR3004 SDR3005 SDR3006	V_{RRM}	400 500 600	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, $T_C = 100^\circ\text{C}$)	Total	I_o	30	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)		I_{FSM}	500	Amps
Operating & Storage Temperature		$T_{OP} \& T_{STG}$	-65 to +200	$^\circ\text{C}$
Maximum Total Thermal Resistance Junction to Case		$R_{\theta JC}$	1.2 (0.9 typ)	$^\circ\text{C/W}$

TO-254 (M)



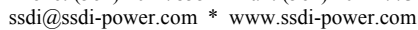
TO-254Z (Z)



NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RC0090A

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