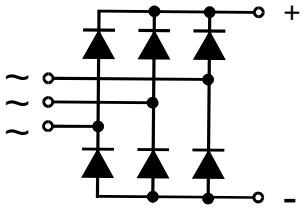
S3PDB35**AV

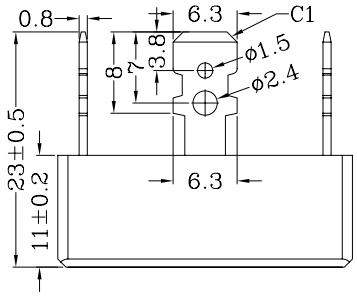
Three Phase Bridge Rectifiers

AVALANCHE DIODE INSIDE





Dimensions in mm (1mm=0.0394")

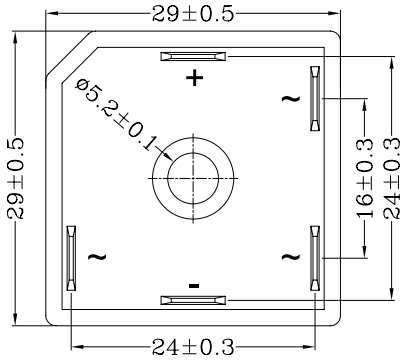


E310749

Type	V_{RSM} V	V_{RRM} V
S3PDB3512AV	1300	1200
S3PDB3516AV	1700	1600
S3PDB3518AV	1900	1800

Product UL RoHS

ul.com/rscs



Maximum Ratings

Symbol	Test Conditions		Maximum Ratings	Unit
I_{dav}	T_C=50°C		35	A
I_{FSM}	T_{VJ}=25°C V_R=0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	420 500	A
I^2t	T_{VJ}=25°C V_R=0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	800 960	A^2s
T_{VJ} T_{VJM} T_{stg}			-40...+180 180 -40...+180	°C
V_{ISOL}	50/60Hz, RMS I_{ISOL}≤1mA	t=1min t=1s	2500 3000	V~
M_d	Mounting torque (M4)		1.5-2 14-18	Nm lb.in.
Weight	typ.		18	g

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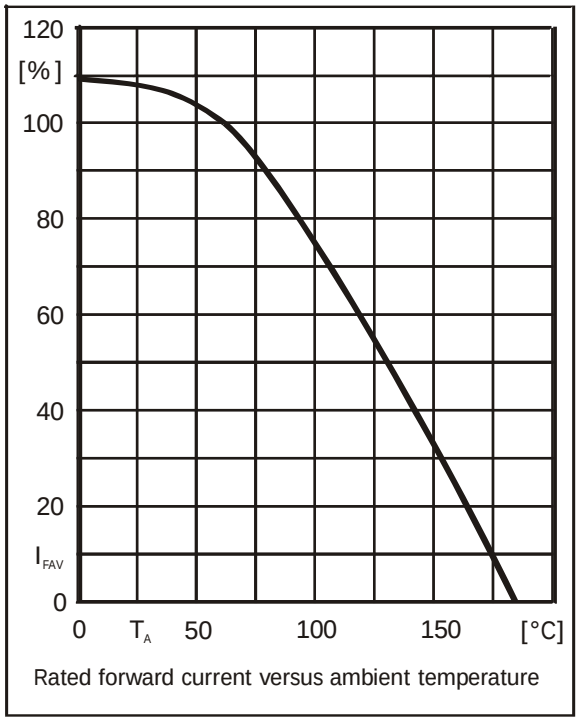
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S3PDB35**AV

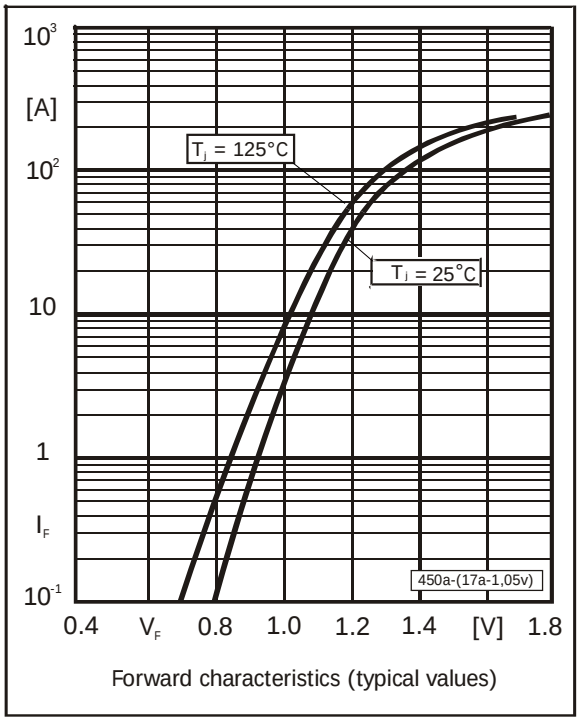
Three Phase Bridge Rectifiers

Characteristics

Max. current with cooling fin 300 cm²	T_A = 50°C R-load	I_{FAV}	35 A
Forward voltage	T_j = 25°C I_F = 150A	V_F	< 1.80 V
Leakage current	T_j = 150°C V_R = V_{RRM}	I_R	< 3mA
Thermal resistance junction to case		R_{thC}	< 0.9 K/W



Rated forward current versus ambient temperature



Forward characteristics (typical values)

FEATURES

- Rating to 1800V PRV
- Avalanche Diode chips inside
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- UL File NO.E310749
- ROHS Compliance

MECHANICAL DATA

- Case: Molded plastic with Heatsink internatly mounted in the bridge encapsulation
- Polarity: As marked on Body
- Mounting: Hote for # 10 scraw
- Weight: 0.63 ounces, 18.0 grams

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