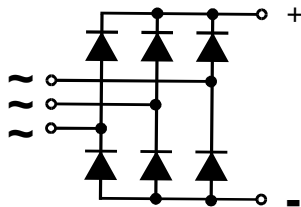


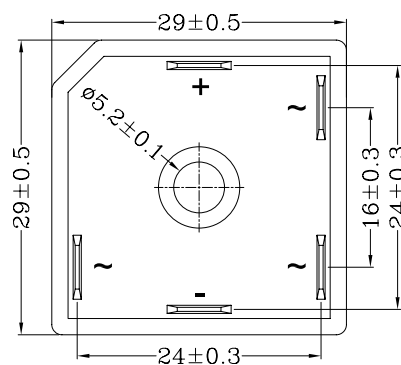
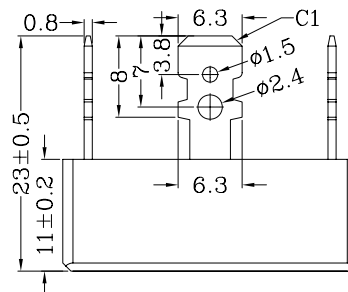
S3PDB35**AV

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



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 ² _t	T _{VJ} =25°C V _R =0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	800 960	A ² s
T _{VJ}			-40...+180	°C
T _{VJM}			180	
T _{stg}			-40...+180	
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

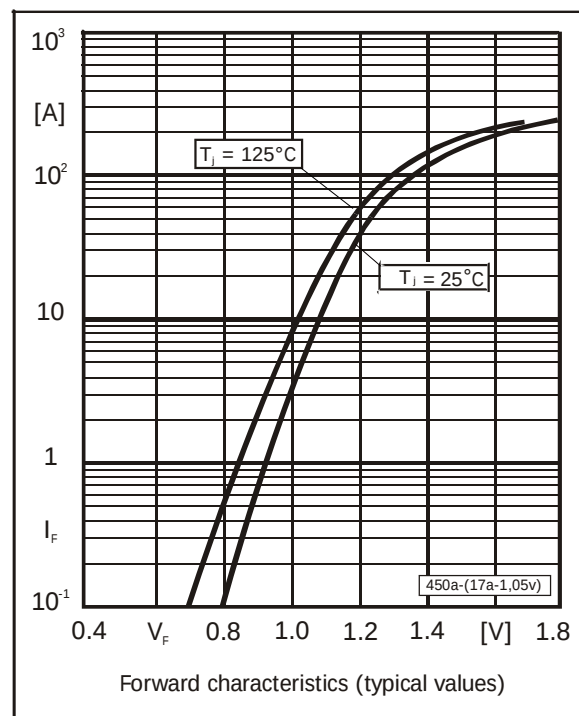
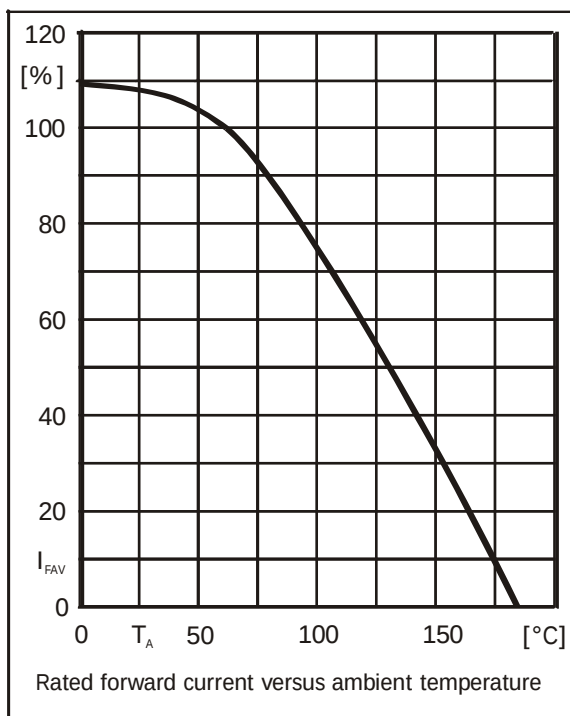
Sirectifier®

S3PDB35**AV

Three Phase Bridge Rectifiers

Characteristics

Max. current with cooling fin 300 cm ²	$T_A = 50^\circ\text{C}$ R-load	I_{FAV}	35 A
Forward voltage	$T_j = 25^\circ\text{C}$ $I_F = 150\text{A}$	V_F	< 1.80 V
Leakage current	$T_j = 150^\circ\text{C}$ $V_R = V_{RRM}$	I_R	< 3mA
Thermal resistance junction to case		R_{thC}	< 0.9 K/W



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 internally mounted in the bridge encapsulation
- Polarity: As marked on Body
- Mounting: Hole for # 10 screw
- Weight: 0.63 ounces, 18.0 grams

Sirectifier®