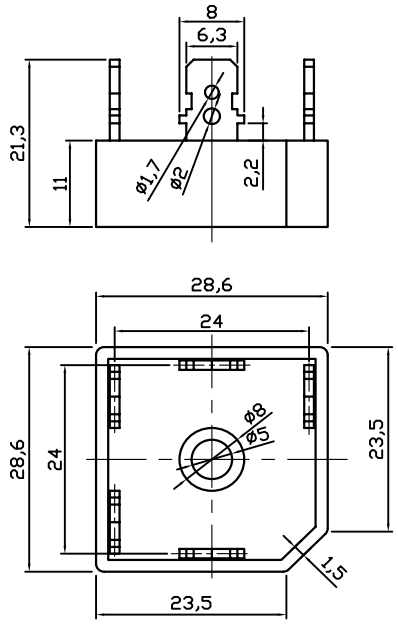
S3PDB25XX

Three Phase Bridge Rectifiers

Product UL RoHS ul.com/rscs

Dimensions in mm (1mm=0.0394")



Type	V_{RSM} V	V_{RRM} V
S3PDB2501	200	100
S3PDB2502	300	200
S3PDB2504	500	400
S3PDB2506	700	600
S3PDB2508	900	800
S3PDB2510	1100	1000
S3PDB2512	1300	1200
S3PDB2516	1700	1600

Maximum Ratings

Symbol	Test Conditions		Maximum Ratings	Unit
I_{dav}	T_C=50°C		25	A
I_{FSM}	T_{VJ}=25°C V_R=0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	350 385	A
I^2t	T_{VJ}=25°C V_R=0	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	630 693	A^2s
T_{VJ} T_{VJM} T_{stg}			-40...+150 150 -40...+125	°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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S3PDB25

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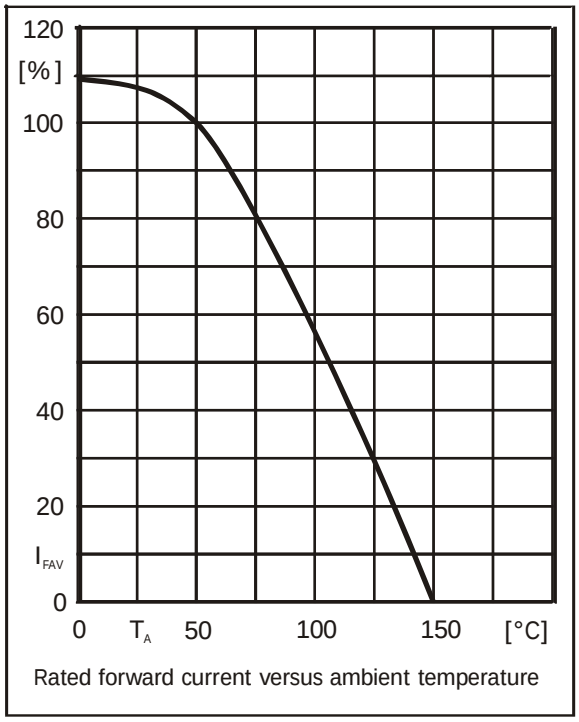
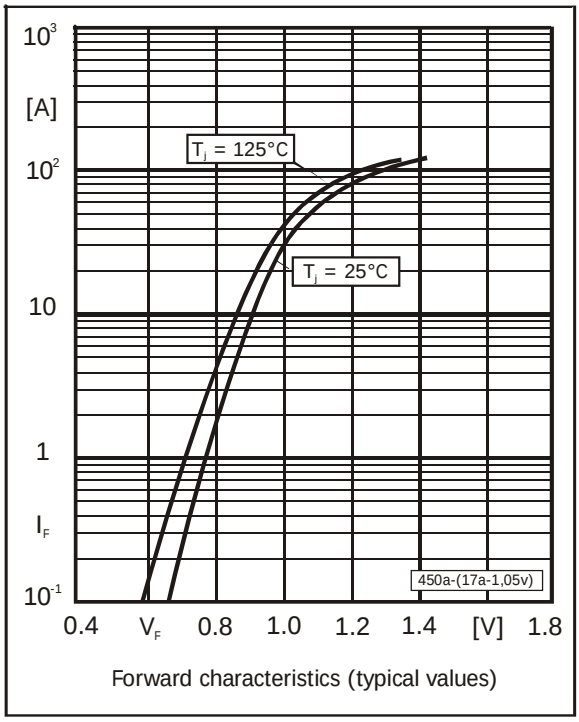
Characteristics

Max. current with cooling fin 300 cm²	T_A = 50°C R-load	I_{FAV}	25 A
Forward voltage	T_j = 25°C I_F = 8.3A	V_F	< 1.05 V
Leakage current	T_j = 25°C V_R = V_{RRM}	I_R	< 10 µA
Thermal resistance junction to case		R_{thC}	< 1.8 K/W



Rated forward current versus ambient temperature



Forward characteristics (typical values)

FEATURES

- Rating to 1600V PRV
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- UL File NO.E310749
- ROHS Compliant

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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