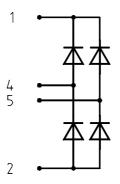


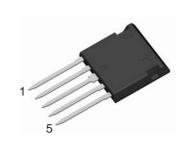
Silicon Carbide Schottky Rectifier Bridge

in ISOPLUS i4-PAC™

FBS 16-06SC

 V_{RRM} = 600 V $I_{D(AV)M}$ = 11 A $C_{junction}$ = 21 pF





Rectifier Bridge					
Symbol	Conditions		Maximum Ratings		
V _{RRM}			600	V	
I _{FAV} I _{D(AV)M} I _{FSM}	$T_{C} = 90^{\circ}\text{C}$; sine $T_{C} = 90^{\circ}\text{C}$ $T_{C} = 90^{\circ}\text{C}$ $T_{VJ} = 25^{\circ}\text{C}$; $t = 10^{\circ}$,	5 11 20	A A A	
P _{tot}	T _C = 25°C	(per diode)	27	W	

Symbol	Conditions		$T_{VJ} = 25^{\circ}C$, unless min.			
V _F	I _F = 6 A;	T _{VJ} = 25°C T _{VJ} = 125°C		1.5 1.6	1.8	V V
I _R	$V_R = V_{RRM}$;	T _{VJ} = 25°C T _{VJ} = 125°C		0.05	0.2	mA mA
C	V _R = 400 V;	T _{VJ} = 125°C		21		pF
${\sf R}_{\sf thJC} \ {\sf R}_{\sf thJS}$	(per diode)			8.6	5.6	K/W K/W

Features

- Silicon Carbide Schottky Diodes
 - no reverse recovery at turn off only charge of junction capacity - soft turn off waveform
- no forward recovery at turn on
- switching behaviour independent of temperature
- low leakage current
- ISOPLUS i4-PAC(TM) package
- isolated back surface
- low coupling capacity between pins and heatsink
- enlarged creepage towards heatsink
- application friendly pinout
- high reliability
- industry standard outline

Applications

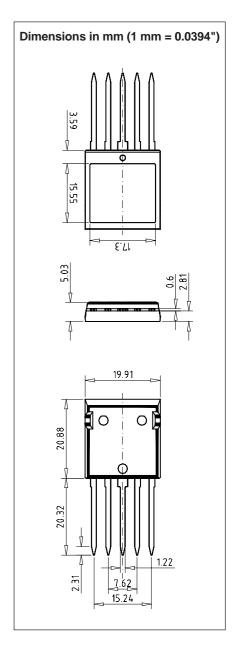
- output rectifiers of high end switched mode power supplies
- other high frequency rectifiers

Data according to IEC 60747 and refer to a single diode unless otherwise stated.



Component				
Symbol	Conditions	Maximum Ra	atings	
T _{vJ} T _{stg}		-55+175 -55+125	°C	
V _{ISOL}	I _{ISOL} ≤ 1 mA; 50/60 Hz	2500	V~	
F _c	mounting force with clip	20120	N	

Symbol	Conditions	Cha	Characteristic Values	
		min.	typ.	max.
C _p	coupling capacity between shorted pins and mounting tab in the case		40	pF
d _s ,d _A d _s ,d _A	pin - pin pin - backside metal	1.7 5.5		mm mm
Weight			9	g



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