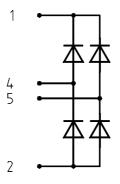
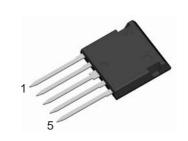


Silicon Carbide Schottky Rectifier Bridge in ISOPLUS i4-PAC™

FBS 10-06SC

 $V_{RRM} = 600 V$ $I_{D(AV)M} = 6.6 A$ $C_{junction} = 9 pF$





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 1 $T_{C} = 90^{\circ}\text{C}$ $T_{VJ} = 25^{\circ}\text{C}$; t = 10	.,	3 6.6 12	A A A	
P _{tot}	T _C = 25°C	(per diode)	19	W	

Symbol	Conditions		$T_{VJ} = 25^{\circ}C$, unless min.			
				٠,١,١,٠	maxi	
V _F	$I_{F} = 4 \text{ A};$	$T_{VJ} = 25^{\circ}C$		1.7	2.0	V
		$T_{VJ} = 125^{\circ}C$		1.9		V
I _R	$V_{p} = V_{ppm}$;	$T_{VJ} = 25^{\circ}C$			0.2	mA
К	K KKWI	$T_{VJ}^{vo} = 125^{\circ}C$		0.04		mΑ
C	V _R = 400 V;	T _{VJ} = 125°C		9		pF
R _{thJC}	(per diode)				8	K/W
R _{thJS}	/			11.5		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 Ratings		
T _{vJ}		-55+175 -55+125	°C °C	
V _{ISOL}	$I_{ISOL} \le 1 \text{ mA}$; 50/60 Hz	2500	V~	
F _c	mounting force with clip	20120	N	

Symbol	Conditions	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

