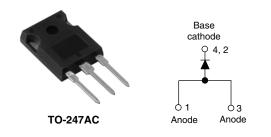


Vishay High Power Products

Input Rectifier Diode, 80 A



PRODUCT SUMMARY			
V _F at 80 A 1.17 V			
I _{FSM}	1450 A		
V _{RRM}	800/1200 V		

DESCRIPTION/FEATURES

The 80EPS.. rectifier High Voltage Series has been optimized for very low forward voltage drop, with moderate leakage. The glass passivation technology used has reliable operation up to 150 °C junction temperature.

Typical applications are in input rectification and these products are designed to be used with Vishay HPP switches and output rectifiers which are available in identical package outlines.

This product has been designed and qualified for industrial level.

MAJOR RATINGS AND CHARACTERISTICS					
SYMBOL	CHARACTERISTICS VALUES		UNITS		
I _{F(AV)}	Sinusoidal waveform	80	А		
V _{RRM}	Range	800/1200	V		
I _{FSM}		1450	А		
V _F	80 A, T _J = 25 °C	1.17	V		
TJ		- 40 to 150	°C		

VOLTAGE RATINGS				
PART NUMBER	V _{RRM} , MAXIMUM PEAK REVERSE VOLTAGE V	V _{RSM} , MAXIMUM NON-REPETITIVE PEAK REVERSE VOLTAGE V	I _{RRM} AT 150 °C mA	
80EPS08	800	900	1	
80EPS12	1200	1300	I	

ABSOLUTE MAXIMUM RATINGS					
PARAMETER	SYMBOL	TEST CONDITIONS VALUES		UNITS	
Maximum average forward current	I _{F(AV)}	$T_C = 100 \ ^{\circ}C$, 180° conduction half sine wave	80		
Maximum peak one cycle non-repetitive surge current	1	10 ms sine pulse, rated V_{RRM} applied	1450	A	
	IFSM	10 ms sine pulse, no voltage reapplied	1500		
Maximum I ² t for fusing	l ² t	10 ms sine pulse, rated V_{RRM} applied	10 500	A ² s	
	1-L	10 ms sine pulse, no voltage reapplied	14 000		
Maximum I ² \sqrt{t} for fusing	l²√t	t = 0.1 ms to 10 ms, no voltage reapplied	105 000	A²√s	

80EPS.. High Voltage Series

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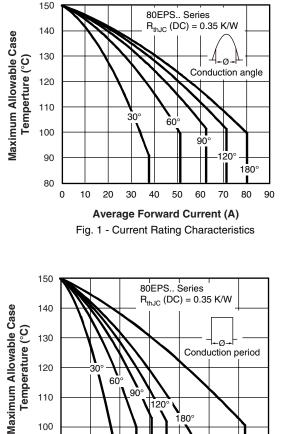
ELECTRICAL SPECIFICATIONS					
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS
Maximum forward voltage drop	V _{FM}	80 A, T _J = 25 °C		1.17	V
Forward slope resistance	r _t	$T_{\rm J} = 150 \ ^{\circ}{\rm C}$ $\frac{3.17}{0.73} \ M$		3.17	mΩ
Threshold voltage	V _{F(TO)}			V	
Maximum reverse leakage current I _{RM}	T _J = 25 °C	V _B = Rated V _{BBM} 0.1	mA		
	чКМ	T _J = 150 °C	AH - LIGIGO AHHW	1.0	

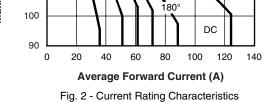
THERMAL - MECHANICAL SPECIFICATIONS					
PARAMETER		SYMBOL	TEST CONDITIONS	VALUES	UNITS
Maximum junction and storage temperature range)	T _J , T _{Stg}		- 40 to 150	°C
Maximum thermal resistance, junction to case		R _{thJC}	DC operation	0.35	
Maximum thermal resistance, junction to ambient		R _{thJA}		40	°C/W
Typical thermal resistance, case to heatsink		R _{thCS}	Mounting surface, flat, smooth and greased	0.2	
Approvimato weight				6	g
Approximate weight			0.21	oz.	
Mounting torque	minimum			6 (5)	kgf ⋅ cm
	maximum			12 (10)	(lbf ⋅ in)
				80EPS08	
Marking device			Case style TO-247AC (JEDEC)	80EPS12	

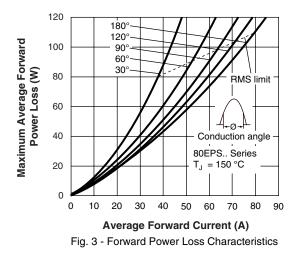


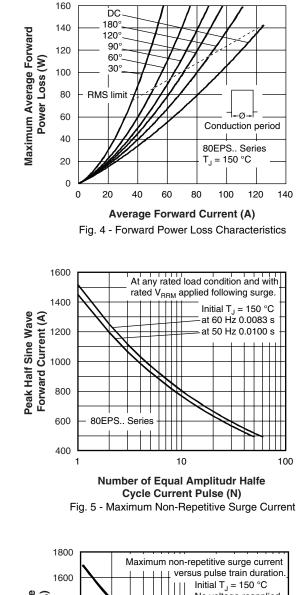
80EPS.. High Voltage Series

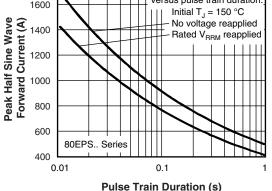
Input Rectifier Diode, 80 A Vishay High Power Products

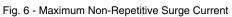












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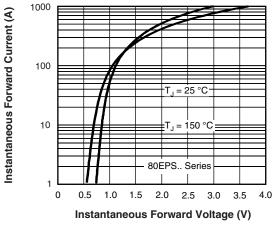


Fig. 7 - Forward Voltage Drop Characteristics

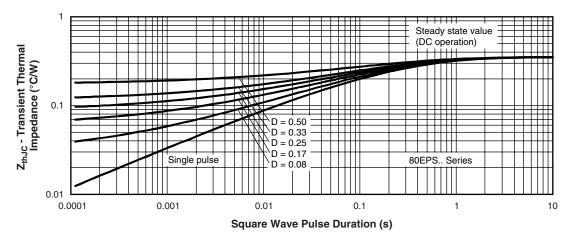
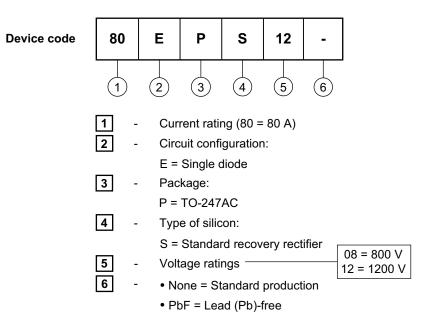


Fig. 8 - Thermal Impedance Z_{thJC} Characteristics



Input Rectifier Diode, 80 A Vishay High Power Products

ORDERING INFORMATION TABLE



LINKS TO RELATED DOCUMENTS			
Dimensions www.vishay.com/doc?95223			
Part marking information www.vishay.com/doc?95226			



Vishay

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>>Vishay(威世)