Vishay High Power Products Input Rectifier Diode, 80 A

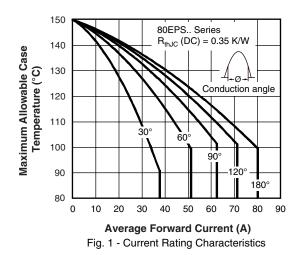


ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	TEST CON	IDITIONS	VALUES	UNITS		
Maximum forward voltage drop	V _{FM}	80 A, T _J = 25 °C		1.17	V		
Forward slope resistance	r _t	T _J = 150 °C		3.17	mΩ		
Threshold voltage	V _{F(TO)}			0.73	V		
Maximum reverse leakage current	I _{RM}	T _J = 25 °C	V_{R} = Rated V_{RRM}	0.1	mA		
		T _J = 150 °C		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, smooth and greased	ased 0.2		
Approximate weight				6	g	
				0.21	oz.	
Mounting torque –	minimum			6 (5)	kgf · cm	
	maximum			12 (10)	(lbf ⋅ in)	
Marking device			Case style TO-247AC (JEDEC)	80EPS16		



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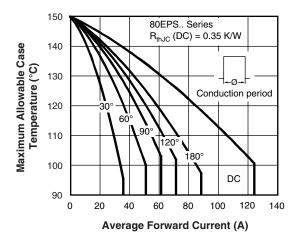
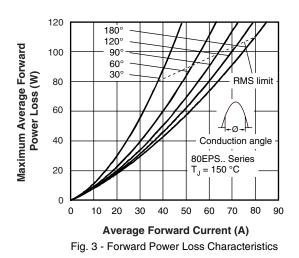
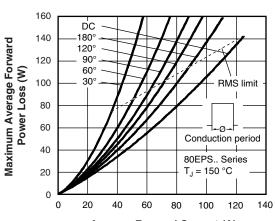
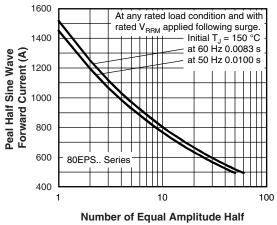


Fig. 2 - Current Rating Characteristics

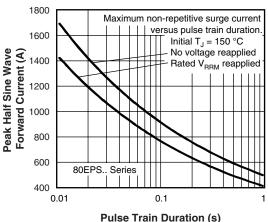


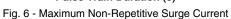


Average Forward Current (A) Fig. 4 - Forward Power Loss Characteristics









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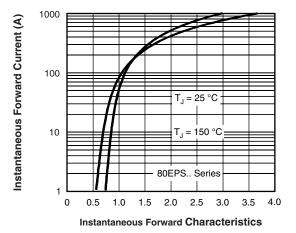


Fig. 7 - Forward Voltage Drop Characteristics

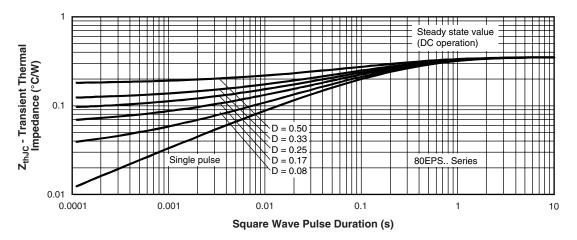
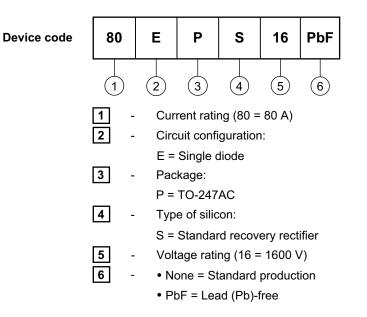


Fig. 8 - Thermal Impedance ZthJC Characteristics



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



Vishay

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