



FAST RECOVERY DIODES

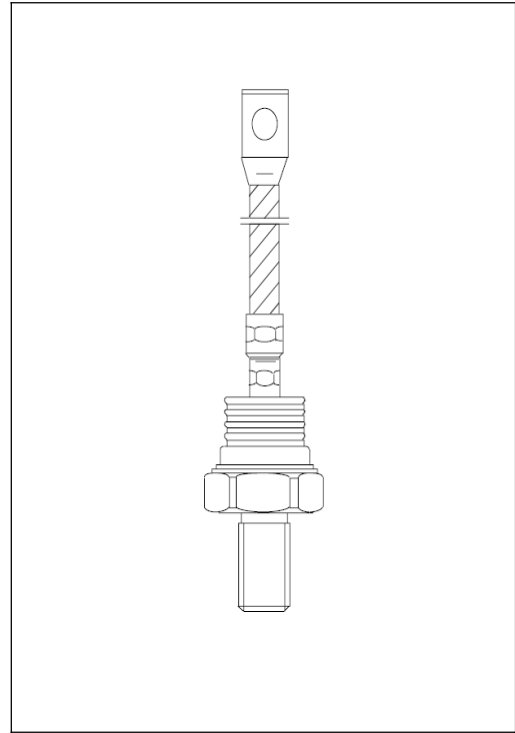
Stud Version

Features

- High power FAST recovery diode series
- 1.0 to 2.0 μ s recovery time
- High voltage ratings up to 5000V
- High current capability
- Optimized turn on and turn off characteristics
- Low forward recovery
- Fast and soft reverse recovery
- Compression bonded encapsulation
- Stud version B—8
- Maximum junction temperature 125°C

Typical Applications

- Snubber diode for GTO
- High voltage free-wheeling diode
- Fast recovery rectifier applications



Forward Conduction

Parameters	PSTSD233N/R	Units	Conditions		
I _{F(AV)} Max. average forward current @ Case temperature	250	A	180° conduction, half sine wave		
	60	°C			
I _{F(RMX)} Max. RMS forward current	390	A			
I _{FSM} Max. peak, one-cycle forward non-repetitive surge current	5500	A	t = 10ms	No voltage reapplied	Initial T _J = T _{Jmax} .
	5760	A	t = 8.3ms		
I _{2t} Maximum I _{2t} for fusing	150000	A ² s	t = 10ms	No voltage reapplied	
	140000	A ² s	t = 8.3ms		
I _{2√t} Maximum I _{2√t} for fusing	1500000	KA ² √s	I _{2t} for time t _x = I _{2√t} × √t _x ; 0.1 ≤ t _x ≤ 10ms, V _{RRM} = 0V		
V _{FM} Maximum forward voltage drop	3.0	V	T _J = 25 °C, I _{FM} = 1200 (arm)		
I _{RRM} Max. DC reverse current	10.0	μA	T _J = 25 °C, per diode at V _{RRM}		
T _{rr}	5	μs			



PSTSD233N/R

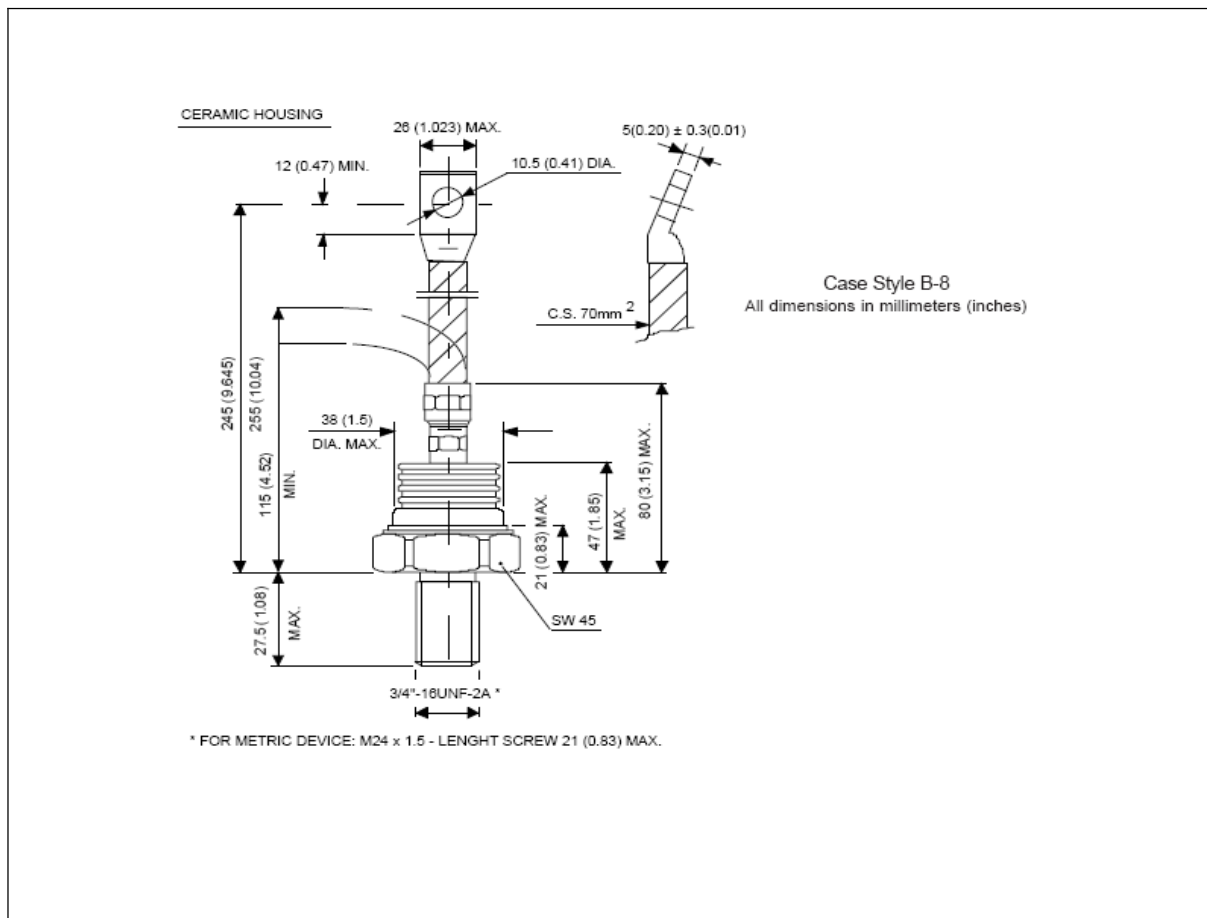
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Voltage Ratings

Type number	Voltage Code	VRRM , max repetitive peak AC rev. voltage TJ = TJ max. V	VRSM , max non-repetitive peak AC rev. voltage TJ = TJ max. V	IRRM max. @ rated VRRM TJ = TJ max. mA	RRM max. D.C. rev. curr. @ T= 125°C (µA)
PSTSD233N/R	20	2000	2100	20	500
	26	2600	2700	20	500
	30	3000	3100	20	500
	35	3500	3600	20	500
	40	4000	4100	20	500
	45	4500	4600	20	500
	50	5000	5100	20	500

Outlines Table



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