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PFR850→856

FAST RECOVERY RECTIFIER DIODE

PRELIMINARY DATASHEET

- LOW FORWARD VOLTAGE DROP
- HIGH SURGE CURRENT CAPABILITY

DO-201AD
(Plastic)

APPLICATIONS

- AC-DC POWER SUPPLIES AND CONVERTERS
- FREE WHEELING DIODES, etc.

DESCRIPTION

Their high efficiency and high reliability combined with small size and low cost make these fast recovery rectifier diode very attractive components for many demanding applications.

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
I_{FRM}	Repetive peak forward current	$t_p < 20\mu s$	100	A
$I_{F(AV)}$	Average forward current*	$T_a = 90°C$ $\delta = 0.5$	3	A
I_{FSM}	Surge non repetitive forward current	$t_p = 10ms$ Sinusoidal	100	A
P_{tot}	Power dissipation *	$T_a = 90°C$	3.5	W
T_{stg} T_j	Storage and junction temperature range		- 40 to + 175 - 40 to + 175	°C
T_L	Maximum lead temperature for soldering during 10s at 4mn from case		230	°C

Symbol	Parameter	PFR					Unit
		850	851	852	854	856	
V_{RRM}	Repetitive peak revrse voltage	50	100	200	400	600	V
V_{RSM}	Non repetitive peak reverse voltage	75	150	250	450	650	V

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THERMAL RESISTANCE

Symbol	Parameter	Value	Unit
$R_{th\ (j-a)}$	Junction-ambient*	25	°C/W

* On infinite heatsink with 10mm lead lengh.

STATIC ELECTRICAL CHARACTERISTICS

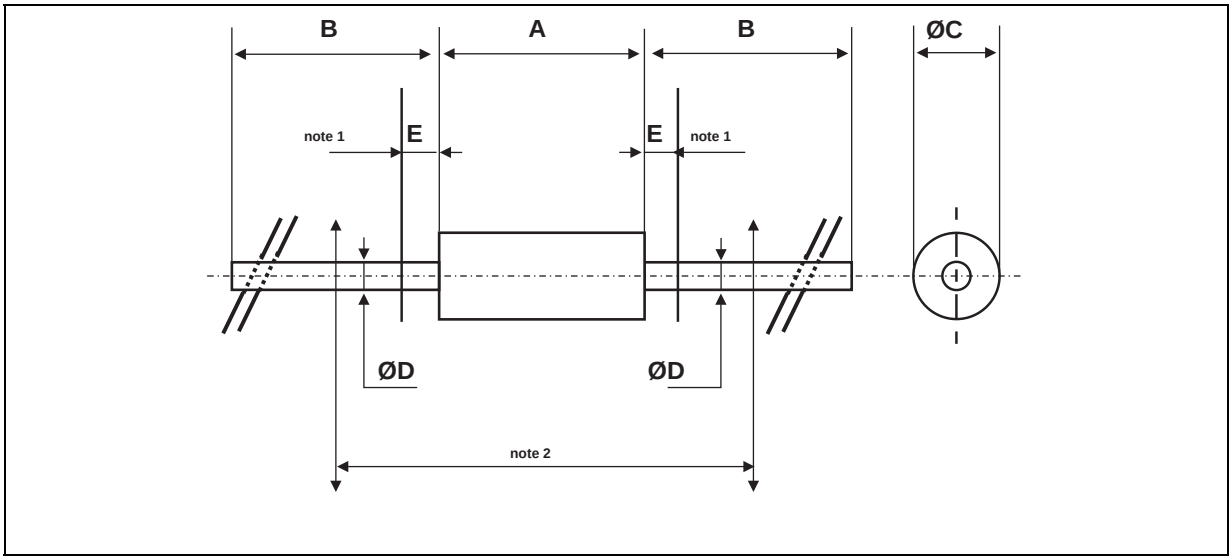
Symbol	Test Conditions		Min.	Typ.	Max.	Unit
I_R	T_j = 25°C	$V_R = V_{RRM}$			10	µA
	T_j = 100°C				250	
V_F	T_j = 25°C	I_F = 3A			1.25	V

RECOVERY CHARACTERISTICS

Symbol	Test Conditions			Min.	Typ.	Max.	Unit
t_{rr}	T_j = 25°C	I_F = 1A	PRF 850→854			150	ns
	V_R = 30V	di_F/dt = - 25A/µs	PRF 856			200	
I_{RM}	T_j = 25°C	I_F = 1A				2	A
	V_R = 30V	di_F/dt = -25A/µs					

PACKAGE MECHANICAL DATA

DO-201AD (Plastic)



REF.	DIMENSIONS				NOTES
	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
A		9.50		0.374	1 - The lead diameter ∅ D is not controlled over zone E 2 - The minimum axial lengh within which the device may be placed with its leads bent at right angles is 0.59"(15 mm)
B	25.40		1.000		
∅ C		5.30		0.209	
∅ D		1.30		0.051	
E		1.25		0.049	

- **Marking**: type number, white band indicate cathode
- Cooling method: by convection (method A)
- Weight: 1g
- Date code

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