

MF35-1600R

FAST RECOVERY DIODE

Features

- Fast recovery diode
- Short reverse recovery time
- Wide current range
- Stud anode version
- Available in metric and UNF thread
- DO-5 1/4" 28UNF-2A
- Compliance to RoHS

Typical applications

- · Low stored charges
- Power supplies
- High frequency Applications



Symbol	Ratings		Value	Unit	
V _{RRM}	Repetitive peak reverse blocking voltage	T _i =- 20 to +125 °c	≥ 1600	V	
V _{RSM}	Non-repetitive peak voltage	7 17 20 10 1120 0	≥ 1600	V	
I _{F(AV)}	average forward current	T _C = 65 °C	≥ 28	А	

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{thcs}	Maximum thermal resistance, case to heatsink	≤ 0.2	°C/W
R _{thJC}	Maximum thermal resistance, junction to case	≤ 1.2	°C/W
TJ	Operating junction temperature range	-20 to 125	°C
F	Maximum mounting torque	4	mN





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ELECTRICAL CHARACTERISTICS

TE=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
V _{RRM}	Repetitive peak reverse blocking voltage	T _j = -20°C to +125°C	1600	-	ı	V
V _{RSM}	Non-repetitive peak voltage		1600	-	-	V
I _{RRM}	Reverse leakage current	V _{RRM} = 1400 V T _j = 125 °C	-	-	5	mA
I _{F(AV)}	average forward current	T _C = 65 °C	28	-	ı	А
I _{F(RMS)}	RMS forward current		40	-	ı	А
I _{FSM}	Single cycle surge current	T _C = 125 °C	400	-	-	А
V _t	Forward voltage drop	at 120 A T _i = 25 °C	-	-	2.2	V
l²t	I ² t for fusing	T _j = 125 °C	800	-	•	A ² sec

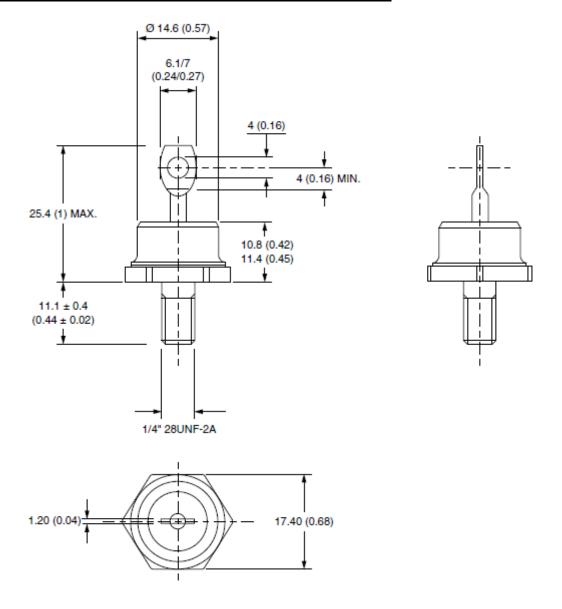
SWITCHING

Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
t _{rr}	Maximum recovery time	I _F = 1 A, di/dt = -25 A/μsec	ı	-	0.3	µsec
Irr	Reverse recovery current	$T_j = -25^{\circ}C \text{ to } +125^{\circ}C$	-	-	52	Α
Qr	Recovered charge	I _F = 50 A, V _R = 100 V di/dt = 50 A/µsec T _C = -25°C	-	-	10	μC



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MECHANICAL DATA CASE DO-5 in millimeters (inches)



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