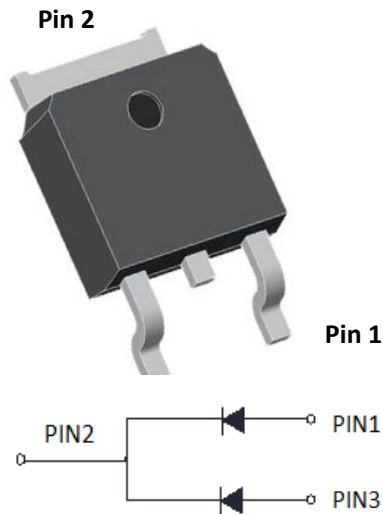


Ultra-Fast Recovery Diodes 8A*2 FRED Pt



Features

- Adopt FRED chip
- Low forward Voltage drop
- Fast reverse recovery time
- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- **Package:** TO-252
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MUR1660CD
Device marking code			MUR1660CD
Repetitive Peak Reverse Voltage	VRRM	V	600
Average Rectified Output Current @60Hz sine wave, R-load, T_c (FIG.1)	I_O	A	16
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	IFSM	A	100
Current Squared Time @ $1\text{ms}\leq t\leq 8.3\text{ms}$ $T_j=25^\circ\text{C}$,	I^2t	A^2s	41
Storage Temperature	T_{stg}	$^\circ\text{C}$	-55 ~ +150
Junction Temperature	T_j	$^\circ\text{C}$	-55 ~ +150
Junction capacitance @4V,1MHz	C_j	pF	40



MUR1660CD

■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_{FM}	V	IFM=8.0A @Tj=25°C	-	1.45	1.6
			IFM=8.0A @Tj=150°C	-	1.15	1.3
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	uA	VRM=VRRM Tj=25°C	-	-	10
	I_{RRM2}		VRM=VRRM Tj=150°C	-	40	200
Reverse Recovery Time	Trr	ns	IF=0.5A I _{RM} =1A I _{RR} =0.25A Tj=25°C	-	25	35
Peak recovery current	I_{RRM}	A	Tj=25°C	-	3.45	-
			Tj=125°C	-	6.25	-
Reverse recovery charge	Qrr	nC	Tj=25°C	-	106.58	-
			Tj=125°C	-	283.26	-

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	MUR1660CD
Thermal Resistance	Between junction and case	R _{θJ-C}	°CW	5.0
Thermal Resistance	Between junction and Air	R _{θJ-A}	°CW	50

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MUR1660CD	Approximate 0.32	2500	2500	25000	Reel

■Characteristics (Typical)

FIG1:Io -Tc Curve

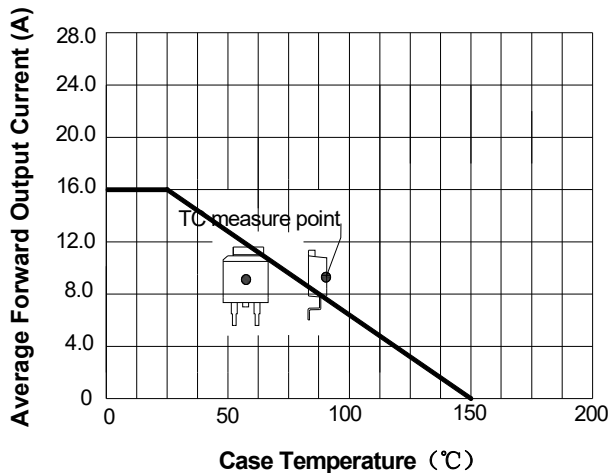


FIG2:Surge Forward Current Capability

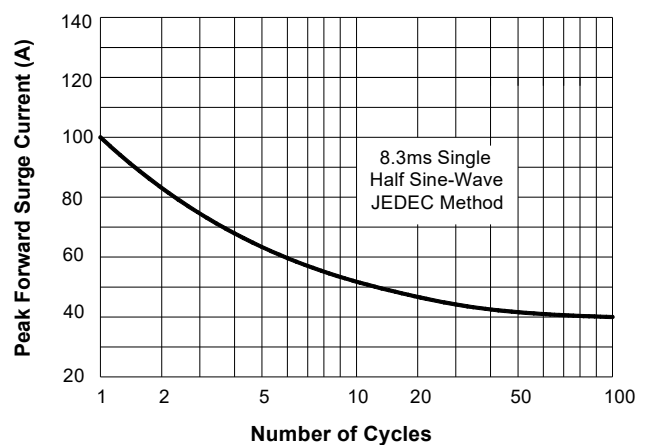


FIG3: Forward Voltage

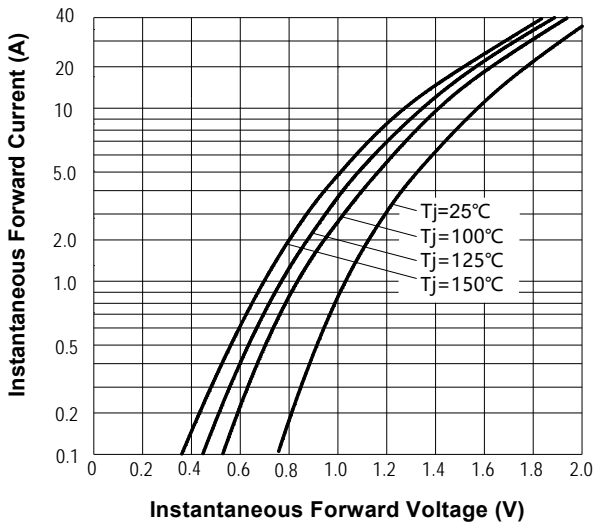


FIG.4: Instantaneous Reverse Characteristics

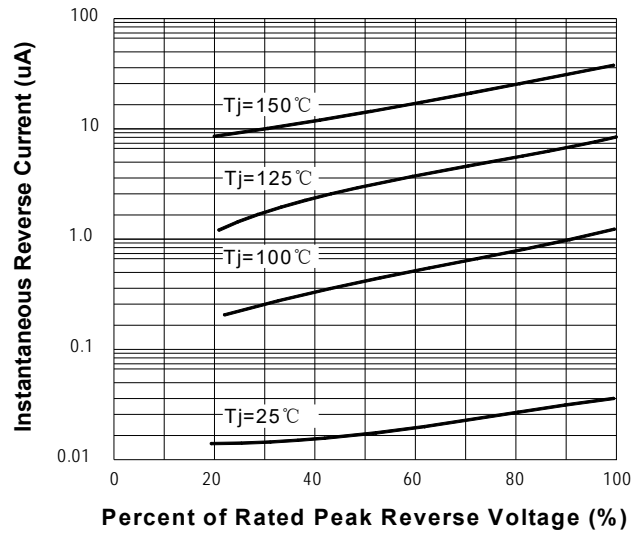
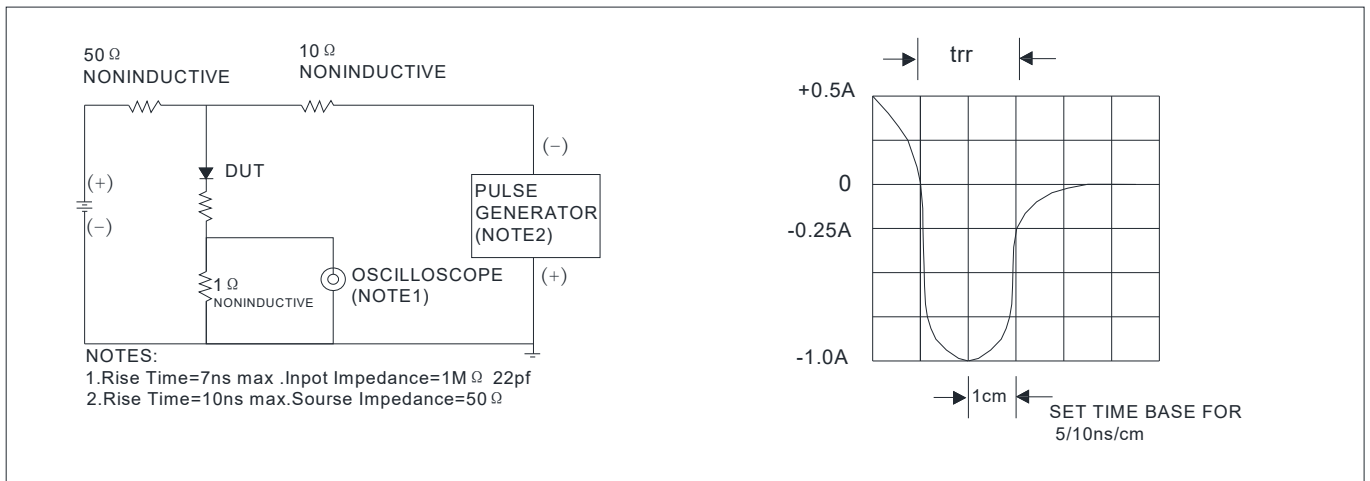


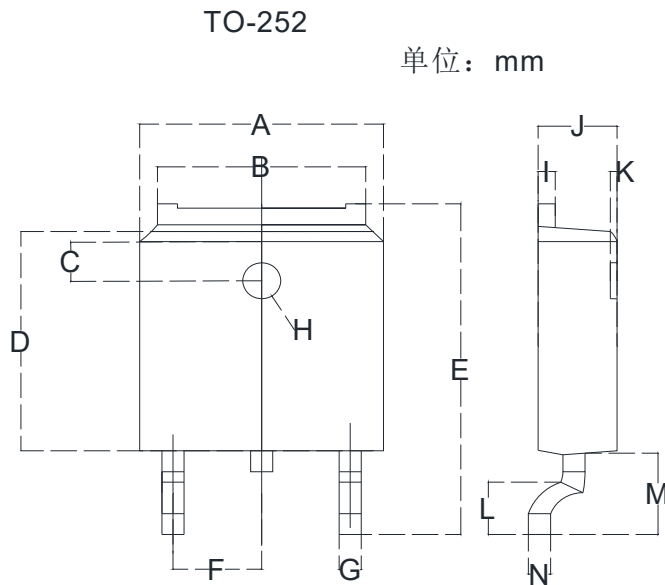
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





MUR1660CD

■Outline Dimensions



TO-252		
Dim	Min	Max
A	6.500	6.700
B	5.100	5.460
C	1.400	1.800
D	6.000	6.200
E	10.000	10.400
F	2.166	2.366
G	0.660	0.860
H	Φ1.050	Φ1.350
I	0.460	0.580
J	2.200	2.400
K	0	0.300
L	0.890	2.290
M	2.730	3.080
N	0.430	0.580



MUR1660CD

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