

Power Semiconductor FRD (Fast Recovery Diode)

MMK6575F00**

Outline

FRD (Bare chip) utilizes various technologies that we cultivated by analog semiconductor device production and is the product which prepared a lineup of the wide high voltage, high current which can contribute to high efficiency and saving energy.

Applications

Industrial Motor Drivers

- Inverter
- •Welding
- •UPS

Absolute Maximum Ratings

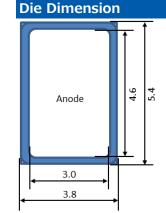
Ti=25℃ unless otherwise noted.

Parameter	Symbol	Rating	Unit
Reverse voltage	VRR	650	V
Forward current *1)	IF	75	Α
Junction temperature	Tj	-40~+175	°C

*1)Forward current is limited by Tj(max) and thermal properties of assembly.

Electrical Characteristics

Tj=25℃ unless otherwise noted.							s otherwise noted.	
Parameter		Symbol	Specification		Unit	condition		
		eyniser	Min	Тур	Max	oe		
Reverse current		IR	-	-	1.5	μA	VR=650V	
Forward voltage	Tj=25℃	VF		-	1.45	1.85		
	Tj=150℃		-	1.50	-	V	IF=75A	
	Tj=175℃		-	1.45	-			
Recovery time *Reference characteristics		trr	-	70	-	nc	IF=75A di/dt≒-2000A/µs	



This characteristic is when it is incorporated in a mold package or evaluation board. Depending on the assembly conditions etc., it may not be satisfied.

Mitsumi

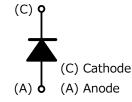
https://mtm-sec.mitsumi.co.jp/web/ic/

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高潮語

Please note that it is not a guaranteed value.

MI-Series 650V / 75A



Features

- ① Fast Recovery Diode
- ② Low forward voltage
- ③ Soft Recovery
- ④ Fast Switching

Die Specification

Item	Value	Unit
Die thickness	80	μm
Die size	5.4x3.8(20.5)	mm
Front metal(AlSi)	4.5	μm
Backside metal(AlSi/Ti/Ni/Au)	0.9	μm

ordering.

Mitsumi Electric CO., LTD.

Semiconductor Business Division

Strategy Engineering Department

MinebeaMitsumi Passion to Create Value through Difference

Any products mentioned this leaflet are subject to any modification in their appearance and others for improvements without p rior notification.

The details listed here are not a guarantee of the individual products at the time of ordering.

When using the products, you will be asked to check their specifications.

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