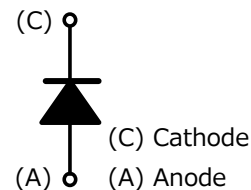




MMK65A5A00**



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

Features

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

Absolute Maximum Ratings

T_j=25deg unless otherwise noted.

Parameter	Symbol	Rating	Unit
Reverse voltage	VRR	650	V
Forward current *1)	IF	150	A
Junction temperature	Tj	-40~+175	°C

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

Die Specification

Item	Value	Unit
Die thickness	280	μm
Die size	6.0x6.0(36.0)	mm
Front metal(AlSi)	6.5	μm
Backside metal(AlSi/Ti/Ni/Au)	0.9	μm

Electrical Characteristics

T_j=25deg unless otherwise noted.

Parameter	Symbol	Specification			Unit	condition
		Min	Typ	Max		
逆電流	IR	-	-	2	μA	VR=650V
順方向電圧	T _j =25°C	-	1.7	2.2	V	IF=150A
	T _j =175°C	-	1.4	-		
逆回復時間 ※参考特性	trr	-	110	-	ns	IF=150A 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. Please note that it is not a guaranteed value.

Die Dimension

