

DIODE MODULE (NON-ISOLATED TYPE)

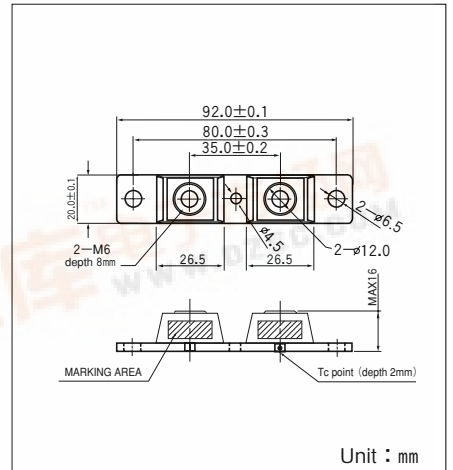
DKR200AB60

DKR200AB60 is a high speed (fast recovery) dual diode module designed for high power switching application. DKR200AB60 is suitable for high frequency application requiring low loss and high speed control.

- High Speed Diode $t_{rr} \leq 200ns$
- $I_{F(AV)}=100A$ (each device)
- High Surge Capability

(Applications)

Switching Power Supply, Inverter Welding Power Supply
Power Supply for Telecommunication



(Tj=25°C unless otherwise specified)

Maximum Ratings

Symbol	Item	Ratings		Unit
		DKR200AB60		
VRRM	Repetitive peak reverse Voltage	600		V
VR(DC)	D.C. Reverse Voltage	480		V

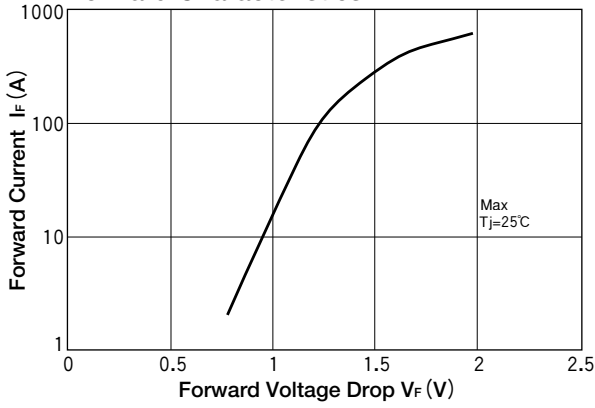
Symbol	Item	Condition	Ratings	Unit	
IF	Forward Current	Per module	D.C. Tc=133°C	200	A
		Per leg		100	
IFSM	Surge Forward Current	1/2 cycle, 60Hz, Peak value. non-repetitive		3600	A
		1/2 cycle, 50Hz, Peak value. non-repetitive		3200	
I²t	I²t (for fusing)	Value for one cycle surge current		54000	A²S
Tj	Operating Junction Temperature			-40 to +150	°C
Tstg	Storage Temperature			-40 to +125	°C
	Mounting Torque	Mounting (M6)	Recommended Value 25-40	48	(kgf·cm)
			Recommended Value 2.5-3.9	4.7	N·m
		Mounting (M4)	Recommended Value 10-14	15	(kgf·cm)
			Recommended Value 1.0-1.4	1.5	N·m
		Terminal (M6)	Recommended Value 25-40	48	(kgf·cm)
			Recommended Value 2.5-3.9	4.7	N·m
	Mass	Typical Value		80	g

Electrical Characteristics

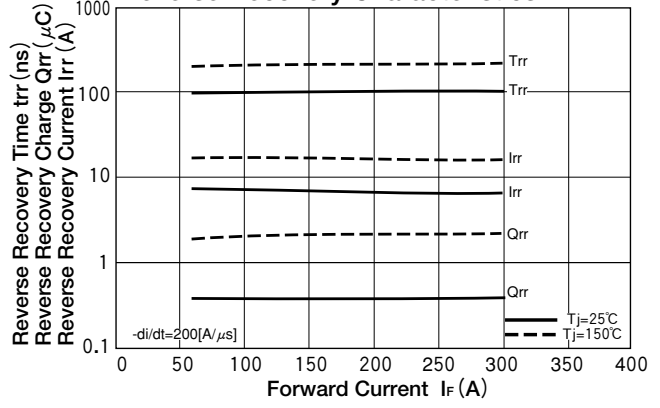
Symbol	Item	Condition	Ratings			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive Peak Reverse Current	Tj=125°C, VD=VRRM			200	mA
VFM	Forward Voltage Drop	IF=200A, Inst.measurement			1.4	V
trr	Reverse Recovery Time	IF=200A, -di/dt=200A/μs		100	200	ns
Rth(j-c)	Thermal Impedance	Junction to case, 1/2 module			0.063	°C/W



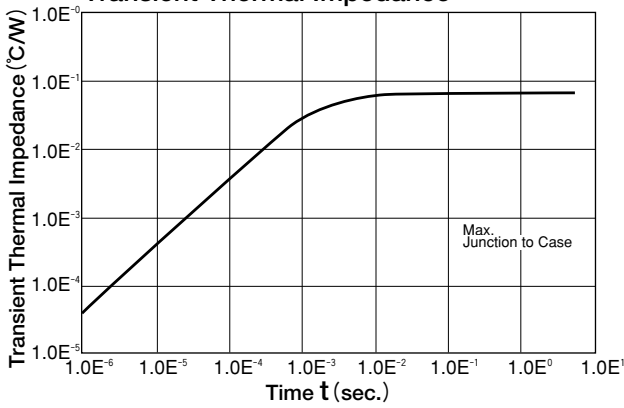
Forward Characteristics



Reverse Recovery Characteristics



Transient Thermal Impedance



Reverse Recovery Characteristics

