DIODE MODULE（NON-ISOLATED TYPE）

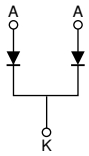
DKR400AB60

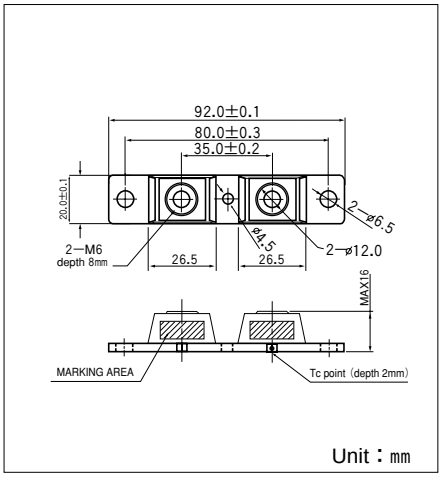
DKR400AB60 is a high speed (fast recovery) dual diode module designed for high power switching application. **DKR400AB60** is suitable for high frequency application requiring low loss and high speed control.

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

（**Applications**）

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





■Maximum Ratings

（Tj＝25℃ unless otherwise specified）

Symbol	Item	Ratings	Unit
		DKR400AB60	
V_{RRM}	Repetitive peak reverse Voltage	600	V
$V_{R(DC)}$	D.C. Reverse Voltage	480	V

Symbol	Item		Condition	Ratings	Unit
I_F	Forward Current	Per module	D.C. T_C＝122℃	400	A
		Per leg		200	
I_{FSM}	Surge Forward Current		½cycle, 60Hz, Peak value. non-repetitive	6000	A
			½cycle, 50Hz, Peak value. non-repetitive	5400	
I^2t	I^2t (for fusing)		Value for one cycle surge current	150000	A^2S
Tj	Operating Junction Temperature			−40 to ＋150	℃
Tstg	Storage Temperature			−40 to ＋125	℃
	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.	
I_{RRM}	Repetitive Peak Reverse Current	Tj＝125℃, V_D=V_{RRM}			300	mA
V_{FM}	Forward Voltage Drop	I_F＝400A, Inst.measurement			1.4	V
trr	Reverse Recovery Time	I_F＝400A, −di/dt＝400A/μs		100	200	ns
Rth(j-c)	Thermal Impedance	Junction to case, ½module			0.05	℃/W

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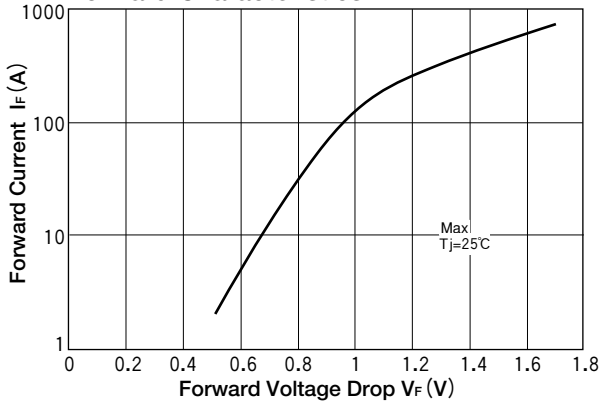
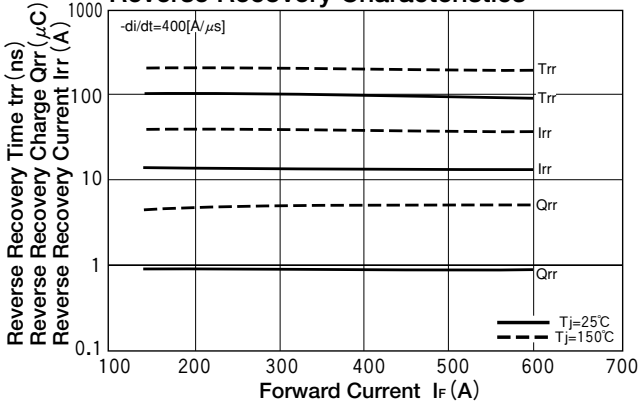
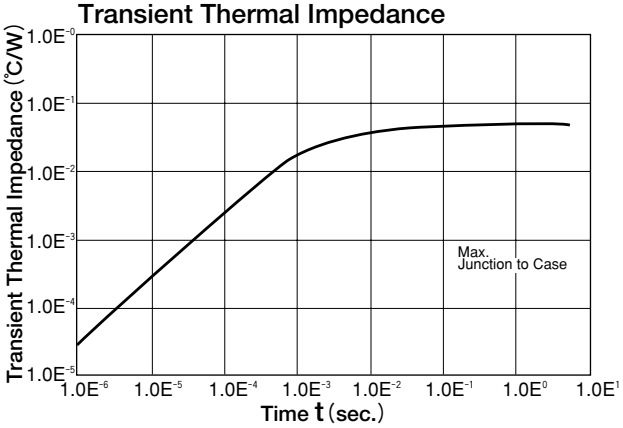
Forward Characteristics



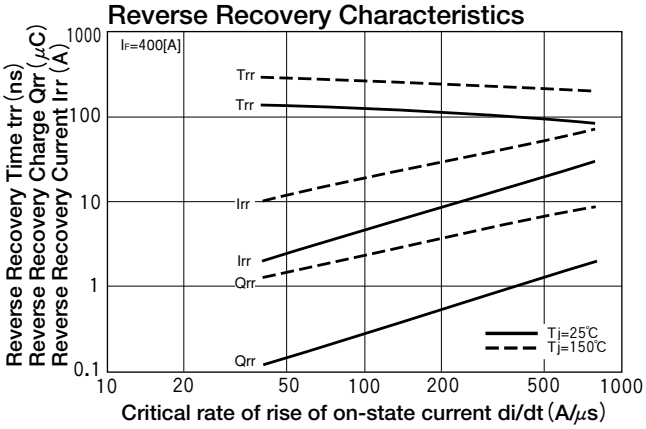
Reverse Recovery Characteristics



Transient Thermal Impedance



Reverse Recovery Characteristics



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