

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.

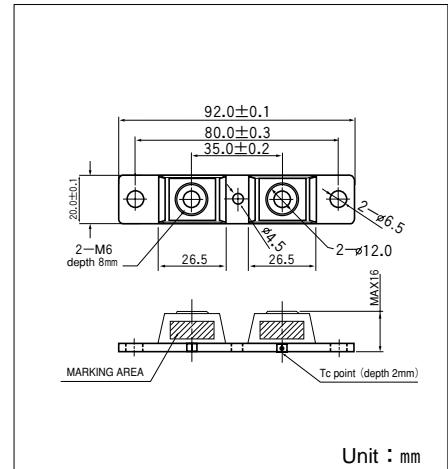
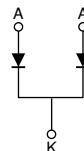
- High Speed Diode $t_{rr} \leq 200\text{ns}$

- IF(AV)=200A (each device)

- High Surge Capability

(Applications)

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



Unit : mm

■ Maximum Ratings

($T_j=25^\circ\text{C}$ unless otherwise specified)

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

Symbol	Item	Condition	Ratings	Unit
I_F	Forward Current Per module	D.C. $T_c=122^\circ\text{C}$	400	A
		Per leg	200	
I_{FSM}	Surge Forward Current	$\frac{1}{2}$ cycle, 60Hz, Peak value. non-repetitive	6000	A
		$\frac{1}{2}$ cycle, 50Hz, Peak value. non-repetitive	5400	
I^2t	I^2t (for fusing)	Value for one cycle surge current	150000	A ² S
T_j	Operating Junction Temperature		-40 to +150	°C
T_{stg}	Storage Temperature		-40 to +125	°C
	Mounting Torque	Recommended Value 25-40	48	(kgf·cm)
		Recommended Value 2.5-3.9	4.7	N·m
		Recommended Value 10-14	15	(kgf·cm)
		Recommended Value 1.0-1.4	1.5	N·m
		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	$T_j=125^\circ\text{C}$, $V_d=V_{RRM}$			300	mA
V_{FM}	Forward Voltage Drop	$I_F=400\text{A}$, Inst.measurement			1.4	V
t_{rr}	Reverse Recovery Time	$I_F=400\text{A}$, $-\frac{di}{dt}=400\text{A}/\mu\text{s}$		100	200	ns
$R_{th(j-c)}$	Thermal Impedance	Junction to case, $\frac{1}{2}\text{module}$			0.05	°C/W

