

Diode Module (Non-Isolated Type)

DKR400AB60

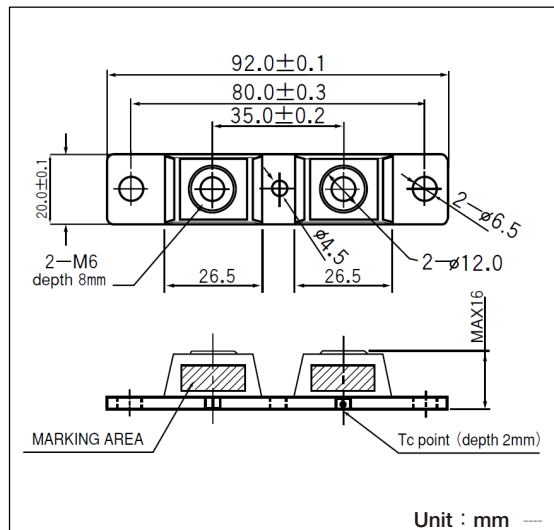
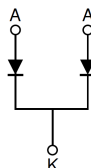
《Features》

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

《Applications》

- Switching Power Supply /
- Inverter Welding Power Supply /
- Power Supply for Telecommunication



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

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

Item	Symbol	Unit	Ratings	Conditions
Forward Current	I_F	A	400	D.C. $T_c = 122^\circ\text{C}$
			200	D.C. $T_c = 122^\circ\text{C}$
Surge Forward Current	I_{FSM}	A	6000	1/2 cycle, 60Hz, Peak value, non-repetitive
			5400	1/2 cycle, 50Hz, Peak value, non-repetitive
I^2t (for fusing)	I^2t	A^2s	150000	Value for one cycle surge current
Operating Junction Temperature	T_j	$^\circ\text{C}$	-40 to +150	
Storage Temperature	T_{stg}	$^\circ\text{C}$	-40 to +125	
Mounting Torque	Mounting M6	$\text{N}\cdot\text{m}$ ($\text{kgf}\cdot\text{cm}$)	4.7(48)	Recommended Value 2.5 to 3.9 (25 to 40)
	Mounting M4		1.5(15)	Recommended Value 1.0 to 1.4 (10 to 14)
	Terminal M6		4.7(48)	Recommended Value 2.5 to 3.9 (25 to 40)
Mass		g	80	Typical value

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

Item	Symbol	Unit	Ratings			Conditions
			Min.	Typ.	Max.	
Repetitive Peak Reverse Current	I_{RRM}	mA			300	$T_j = 125^\circ\text{C}$, $V_D = V_{RRM}$
Forward Voltage Drop	V_{FM}	V			1.4	$I_F = 400\text{A}$, Inst.measurement
Reverse Recovery Time	t_{rr}	ns		100	200	$I_F = 400\text{A}$, $-di/dt = 400\text{A}/\mu\text{s}$
Thermal Resistance	$R_{th(j-c)}$	$^\circ\text{C}/\text{W}$			0.1	Junction to case, 1/2 module

