

Diode Module (Non-Isolated Type)

DKR300AB60

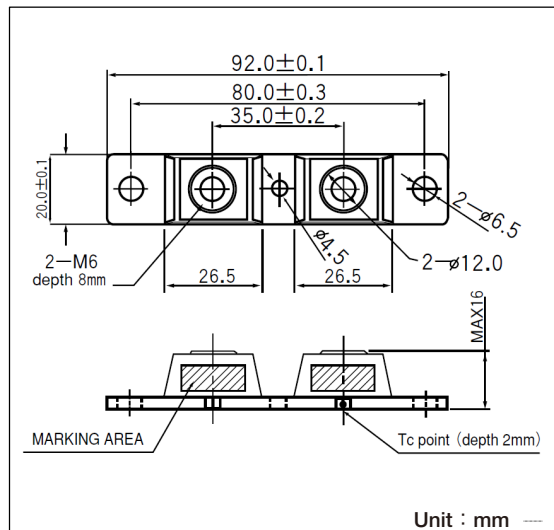
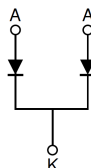
《Features》

DKR300AB60 is a high speed (fast recovery) dual diode module designed for high power switching application. DKR300AB60 is suitable for high frequency application requiring low loss and high speed control.

- High Speed Diode $t_{rr} \leq 200\text{ns}$
- $I_{F(AV)} = 150\text{A}$ (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	DKR300AB60
Repetitive Peak Reverse Voltage	V_{RRM}	V	600
D.C. Reverse Voltage	$V_{R(DC)}$	V	480

Item	Symbol	Unit	Ratings	Conditions	
Forward Current	(Per Module)	I_F	A	300	D.C. $T_c = 124^\circ\text{C}$
	(Per Leg)			150	D.C. $T_c = 124^\circ\text{C}$
Surge Forward Current	I_{FSM}	A	3600	1/2cycle, 60Hz, Peak value. non-repetitive	
			3200	1/2cycle, 50Hz, Peak value. non-repetitive	
I^2t (for fusing)	I^2t	A^2s	54000	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	N·m (kgf·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			200	$T_j = 125^\circ\text{C}$, $V_D = V_{RRM}$
Forward Voltage Drop	V_{FM}	V			1.4	$I_F = 300\text{A}$, Inst.measurement
Reverse Recovery Time	t_{rr}	ns		100	200	$I_F = 300\text{A}$, $-di/dt = 300\text{A}/\mu\text{s}$
Thermal Resistance	$R_{th(j-c)}$	$^\circ\text{C}/\text{W}$			0.063	Junction to case

