

# DD160KB80/160

《Features》

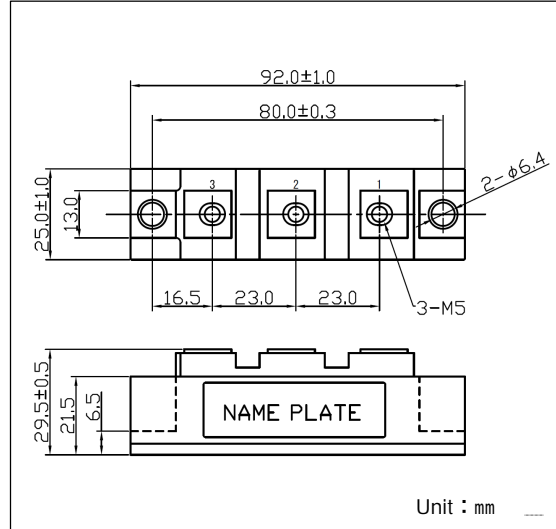
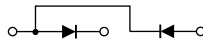
Power Diode Module DD160KB Series are designed for various rectifier circuits.

DD160KB has two diode chips connected in series and the mounting base is electrically isolated from elements for simple heatsink construction. Wide voltage rating up to, 1600V is available for various input voltages.

- Isolated mounting base
- Two elements in a package for simple (single and three phase) bridge connections
- Highly reliable glass passivated chips
- High surge current capability

《Applications》

•Various rectifiers / Battery chargers / DC motor drives



Unit : mm

■ Maximum Ratings (Tj=25°C unless otherwise specified)

Item	Symbol	Unit	DD160KB80	DD160KB160
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	800	1600
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	V	960	1700

Item	Symbol	Unit	Ratings	Conditions
Average Forward Current	$I_{F(AV)}$	A	160	Single phase half wave, 180° conduction Tc=90°C
R.M.S. Forward Current	$I_{F(RMS)}$	A	250	Single phase half wave, 180° conduction Tc=90°C
Surge Forward Current	$I_{FSM}$	A	3200	1/2cycle, 60Hz, Peak value, non-repetitive
$I^2t$	$I^2t$	A <sup>2</sup> s	42600	Value for one cycle surge current
Operating Junction Temperature	$T_j$	°C	-40 to +150	
Storage Temperature	$T_{stg}$	°C	-40 to +125	
Isolation Breakdown Voltage	$V_{ISO}$	V	2500	A.C. 1minute
Mounting Torque	Mounting (M6)	N·m (kgf·cm)	4.7(48)	Recommended Value 2.5 to 3.9 (25 to 40)
	Terminal (M5)			
Mass		g	170	Typical value

■ Electrical Characteristics (Tj=25°C unless otherwise specified)

Item	Symbol	Unit	Ratings	Conditions
Repetitive Peak Reverse Current,max	$I_{RRM}$	mA	30	Tj=150°C , VR=VRRM
Forward Voltage Drop,max	$V_{FM}$	V	1.35	Forward current 500A , Inst.measurement
Thermal Resistance,max	$R_{th(j-c)}$	°C/W	0.3	Junction to case

