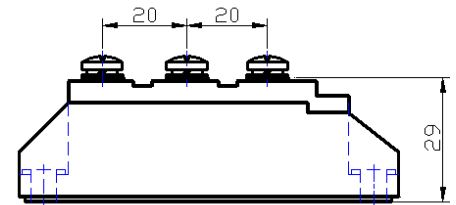


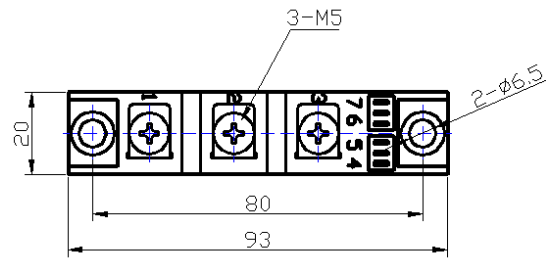
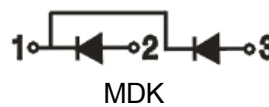
## Feature

- International standard pack
- Low forward voltage drop
- Isolation voltage 2500V ~



## Application

- AC/DC motor control
- All types of rectifier power supply
- Frequency convertor



### ■ Maximum value

Symbol	Parameter	Rating		Unit
		MDC55-12 MDA55-12 MDK55-12	MDC55-16 MDA55-16 MDK55-16	
$V_{RRM}$	Peak reverse repetitive voltage	1200	1600	V
$V_{RSM}$	Peak reverse non-repetitive voltage	1300	1700	V

Symbol	Parameter	Test condition	Rating	Unit
$I_{F(AV)}$	Average forward current	180° sine half-wave 50HZ single-sided heat dissipation $T_C=100^\circ\text{C}$	55	A
$I_{F(RMS)}$	Forward RMS current	single-sided heat dissipation, 180° sine half-wave, 50HZ, $T_C:100^\circ\text{C}$	86	A
$I_{FSM}$	Forward surge current	$t=10\text{ms}, 50\text{HZ}, \text{sin}, T_{jm}$	1300	A
$I^2t$	$I^2t$ value	$V_R = 0.6V_{RRM}, T_{jm}$	8450	$\text{A}^2\text{S}$
$V_{ISO}$	Isolation voltage	AC one minute	2500	V
$T_j$	Operating junction temperature		-40 to +150	$^\circ\text{C}$
$T_{jm}$	Rated junction temperature		150	$^\circ\text{C}$
$T_{stg}$	Storage temperature		-40 to +125	$^\circ\text{C}$
Md	Mounting torque (copper plate) M6		4	N·m
	Mounting torque (terminal) M5		2.7	N·m
$W_t$	Weight		160	g

### ■ Electrical characteristics

Symbol	Parameter	Test condition	Rating	Unit
$I_{RRM}$	Peak reverse repetitive current	$V_R=V_{RRM}$ , sine half-wave, $T_j=150^\circ\text{C}$	8	mA
$V_{FM}$	Peak forward voltage	$I_{FM}=165\text{A}$ , $T_j=25^\circ\text{C}$	1.4	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-sided heat dissipation, sine half-wave	0.70	$^\circ\text{C/W}$