

**STANDARD RECOVERY DIODE (Stud Version) | 普通整流二极管(螺旋式)**

**Features**

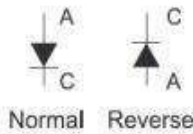
- High surge current capability
- Stud cathode and stud anode version
- Wide current range
- Metric device version available



**Typical Applications**

- Battery charges
- Converters
- Power supplies
- Machine tool controls
- Welder      ■ Motor controls

**Polarity**



**Ordering Information Table**

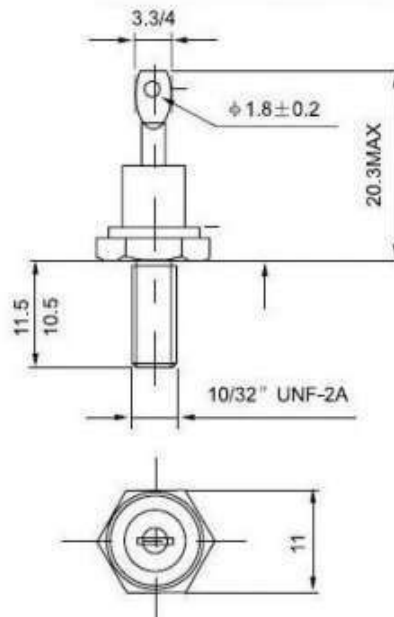
Device Code	FR	16	F	R	120	M
	①	②	③	④	⑤	⑥

- 1** -None=Standard recovery diodes;  
FR=Fast recovery diodes
- 2** -Current code= $I_{F(AV)}$
- 3** -Outline code: F=DO-4 case 6A~25A; HF=DO-5 case 30A~85A  
U=DO-8,DO-9 case 100A~300A
- 4** -None=Stud Normal Polarity (cathode to stud)  
R=Stud Reverse Polarity (anode to stud)
- 5** -Voltage code=code x 10= $V_{RRM}$
- 6** -None=Standard inch Device; M=Metric Device

**ELECTRICAL CHARACTERISTICS**

Symbol	Parameter	Conditions	6F(R)	12F(R)	16F(R)	25F(R)	Unit
$I_{F(AV)}$	Average on-state current	$T_{HS}=55^{\circ}C$	6	12	16	25	A
$I_{F(RMS)}$	RMS on-state current	$T_{HS}=55^{\circ}C$	9	19	25	40	A
$V_{RRM}$	Repetitive peak reverse voltage	$T_{HS}=140^{\circ}C$	400-1200				V
$V_{DRM}$	Repetitive peak reverse voltage	$T_{HS}=140^{\circ}C$	400-1200				V
$I_{RRM}$	Repetitive peak reverse current	$T_{HS}=140^{\circ}C$	6	10	12	12	mA
$V_{FM}$	On-state voltage	$T_{HS}=140^{\circ}C$	1.1	1.25	1.25	1.1	V
$I_{FM}$	On-state Current	$T_{HS}=140^{\circ}C$	18	36	48	75	A
R j-c	Peak gate forward voltage		$\leq 2.0$	$\leq 1.8$	$\leq 1.5$	$\leq 1.2$	$^{\circ}C/W$
$T_J$	Junction temperature		-40~+150				$^{\circ}C$
$T_{stg}$	Storage temperature		-40~+125				$^{\circ}C$
MT	Mounting torque		$\leq 1.0$				N·m
Wt	Weight	Typical value	8	8	9	9	g

**Outline table**  
(Dimension in mm)



For metric devices: M5 x 0.8

DO-4

Dimension in mm