

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

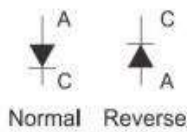
Features

- 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



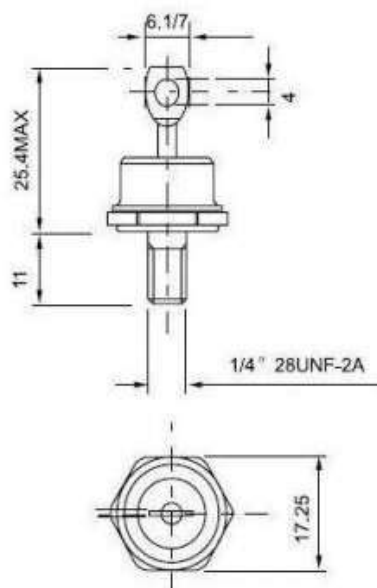
Ordering Information Table

Device Code	FR	70	HF	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	40HF(R)	50HF(R)	70HF(R)	85HF(R)	Unit
$I_{F(AV)}$	Average on-state current	$T_{HS}=55^{\circ}\text{C}$	40	50	70	85	A
$I_{F(RMS)}$	RMS on-state current	$T_{HS}=55^{\circ}\text{C}$	64	80	112	160	A
V_{RRM}	Repetitive peak reverse voltage	$T_{HS}=140^{\circ}\text{C}$	400-1200		400-1600		V
V_{DRM}	Repetitive peak reverse voltage	$T_{HS}=140^{\circ}\text{C}$	400-1200		400-1600		V
I_{RRM}	Repetitive peak reverse current	$T_{HS}=140^{\circ}\text{C}$	10	10	12	12	mA
V_{FM}	On-state voltage	$T_{HS}=140^{\circ}\text{C}$	1.3	1.4	1.45	1.45	V
I_{FM}	On-state Current	$T_{HS}=140^{\circ}\text{C}$	120	150	210	240	A
R j-c	Peak gate forward voltage		≤ 0.8	≤ 0.8	≤ 0.6	≤ 0.5	$^{\circ}\text{C/W}$
T_J	Junction temperature		-40~+150				$^{\circ}\text{C}$
Tstg	Storage temperature		-40~+125				$^{\circ}\text{C}$
MT	Mounting torque		≤ 2.0				N·m
Wt	Weight	Typical value	19	19	20	20	g

Outline table (Dimension in mm)



For metric devices: M6 × 1

DO-5