

Features

- 1.25D(R) series Diodes are designed for various power controls
- 2.Voltage rating up to 1600V

Typical Applications

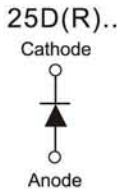
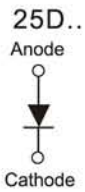
- AC/DC Converters
- DC Power Supplies
- Machine tool controls

Ordering code

25 **D** **(R)** **xx** **M**

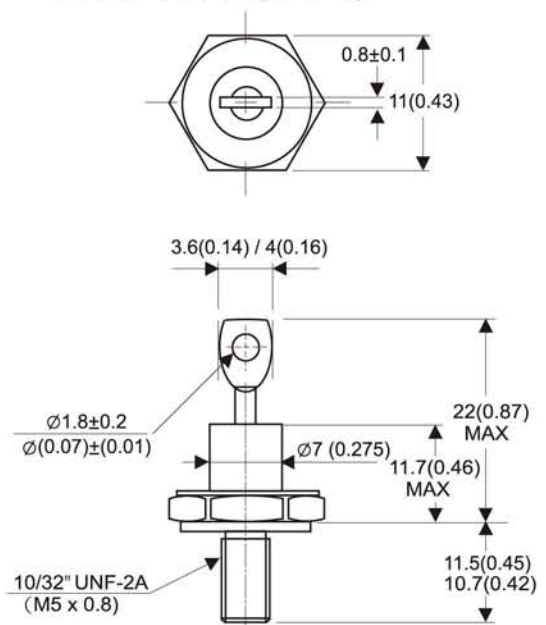
(1) (2) (3) (4) (5)

- (1) Maximum average forward current,A
 (2) D-for standard recovery diodes
 (3) Polarity code :
 R-reverse polarity (Anode to Stud)
 Omit this position for normal polarity types
 (4) Voltage code , V (code x 100 = V_{RRM})
 (5) M5 x 0.8



STANDARD RECOVERY DIODE

STUD TYPE (DO-4)



All dimensions in millimeters (inches)

Electrical Characteristics

Symbol	Parameter	Condition	Value	Unit
$I_{F(AV)}$	Maximum average forward current	180° conduction , half sine wave $T_c = 150^\circ\text{C}$	25	A
$I_F(RMS)$	Max. RMS forward Current		40	A
V_{RSM}	Maximum non-repetitive peak reverse voltage	$t_p=10\text{ ms}$, $V_{RRM} = 400\text{V}$	500	V
		$t_p=10\text{ ms}$, $V_{RRM} = 800\text{V}$	950	
		$t_p=10\text{ ms}$, $V_{RRM} = 1200\text{V}$	1400	
		$t_p=10\text{ ms}$, $V_{RRM} = 1600\text{V}$	1880	
I_{FSM}	Surge forward current	$t_p=10\text{ms}$ half sine wave	356	A
I^2_t	I^2t for fusing	No voltage reapplied	636	A ² S
V_{FM}	Peak forward voltage	$I_{FM}=900\text{A}$, $T_j=25^\circ\text{C}$	1.3	V
r_f	Slope resistance	@ $T_j=T_j\text{ MAX}$	6.8	m Ω
$V_F(TO)$	Threshold Voltage		0.8	V
T_{stg}	Storage temperature range		-40 to 200	°C
$R_{th(j-c)}$	Thermal resistance (junction to case)		1.5	K/ W
W_t	Approximate weight		7	g
T	Max. Allowed mounting torque	Not lubricated threads	1.2	Nm

FIG.1

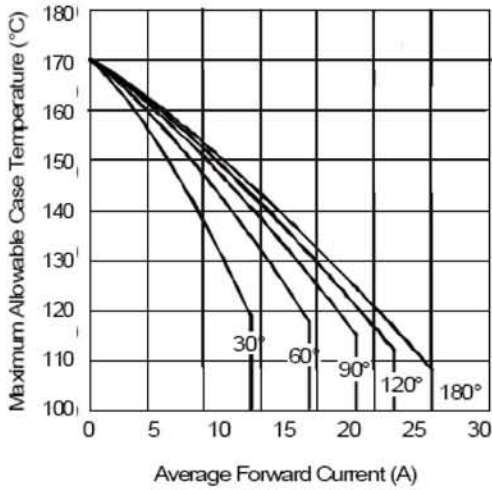


FIG.2

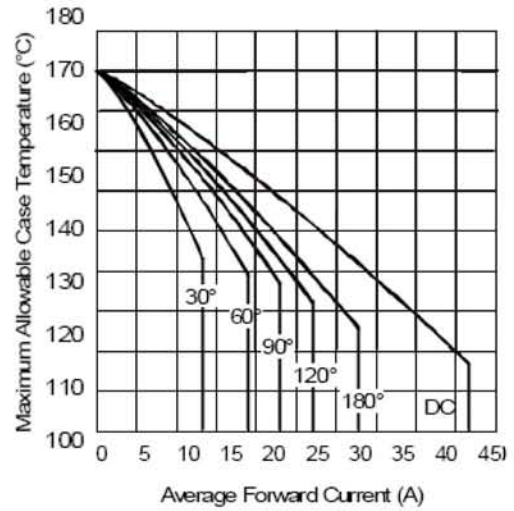


FIG.3

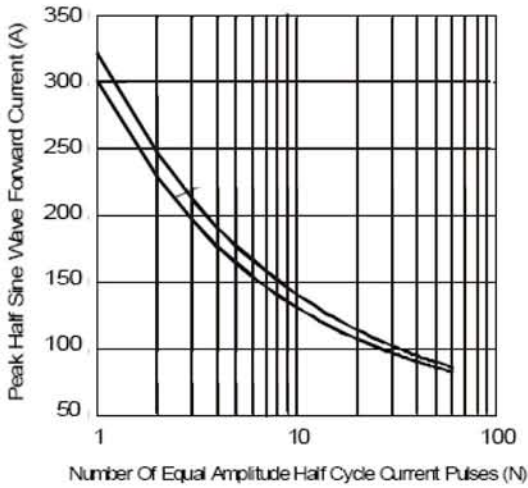


FIG.4

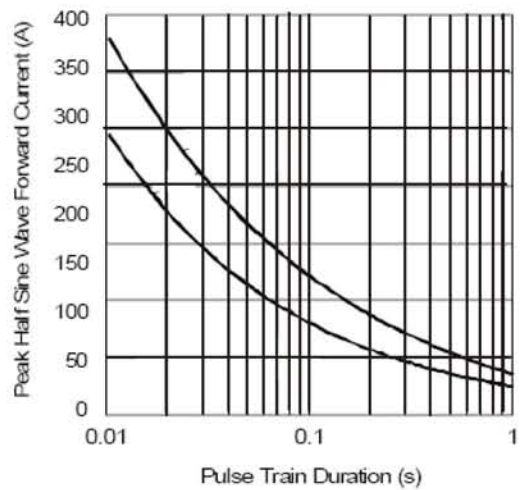


FIG.5

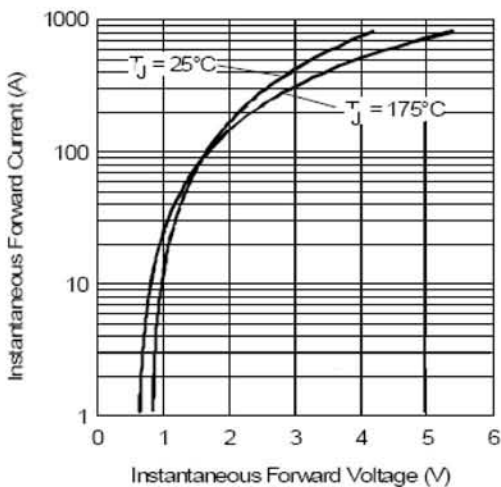


FIG.6

