

## Features

## STANDARD RECOVERY DIODE

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
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(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

25D..

Anode



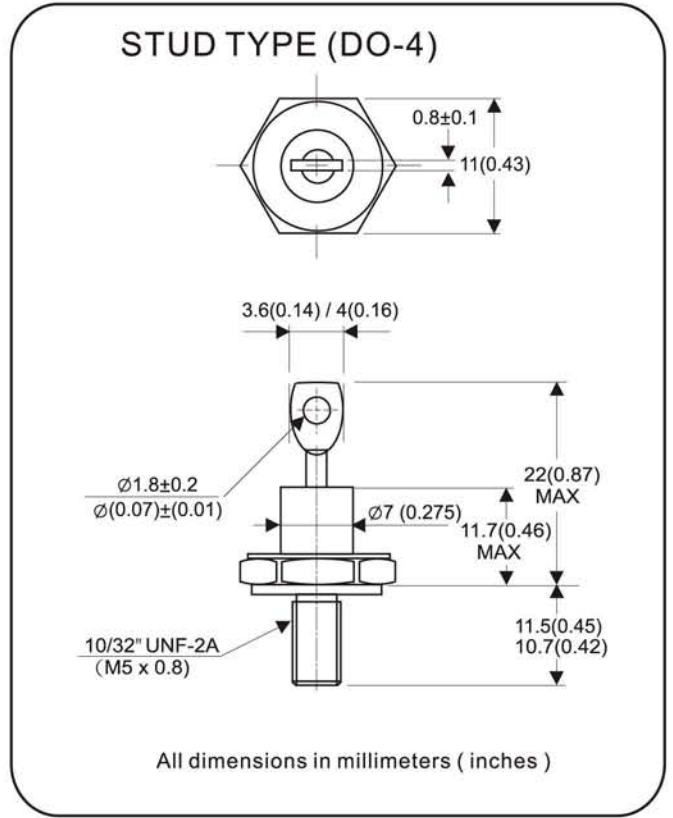
Cathode

25D(R)..

Cathode



Anode



## Electrical Characteristics

Symbol	Parameter	Condition	Value	Unit
$I_{F(AV)}$	Maximum average forward current	$180^\circ$ conduction , half sine wave $T_c = 150^\circ\text{C}$	25	A
$I_F(\text{RMS})$	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 No voltage reapplied	356	A
$I^2_t$	$I^2t$ for fusing		636	$\text{A}^2\text{S}$
$V_{FM}$	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	$\text{m}\Omega$
$V_F(\text{TO})$	Threshold Voltage		0.8	V
$T_{stg}$	Storage temperature range		-40 to 200	$^\circ\text{C}$
$R_{th(j-c)}$	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

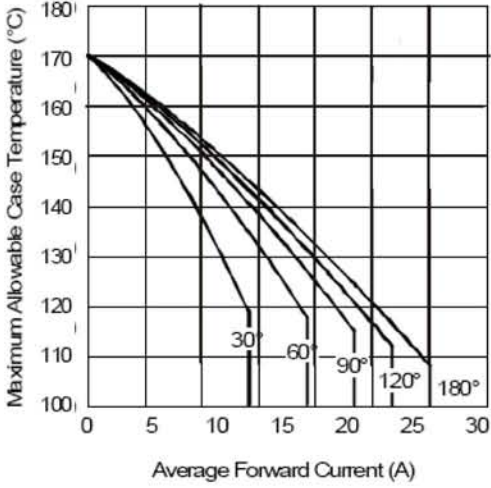


FIG.2

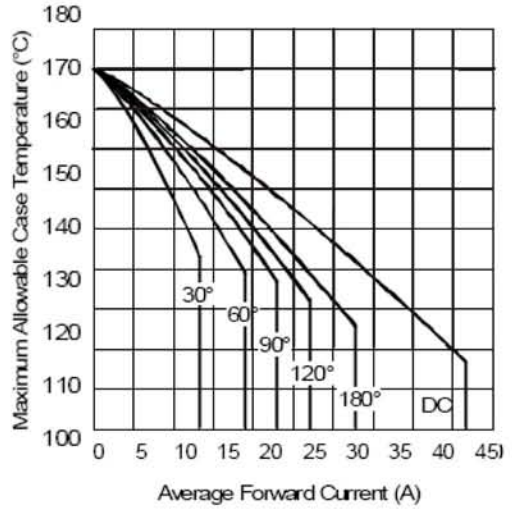


FIG.3

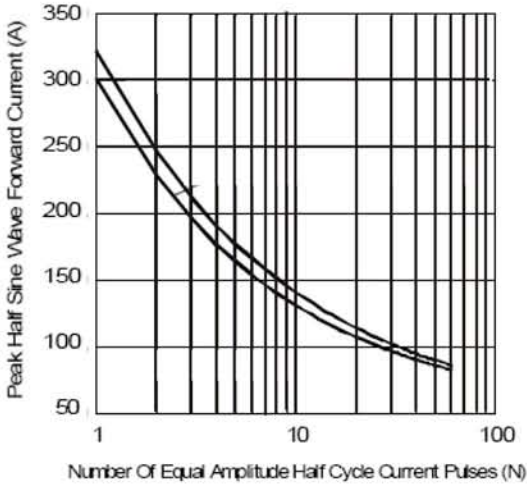


FIG.4

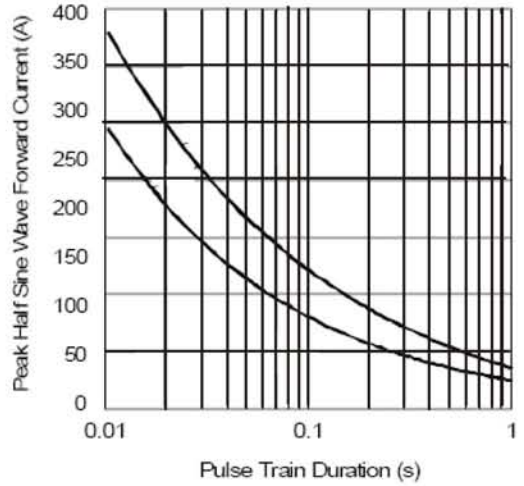


FIG.5

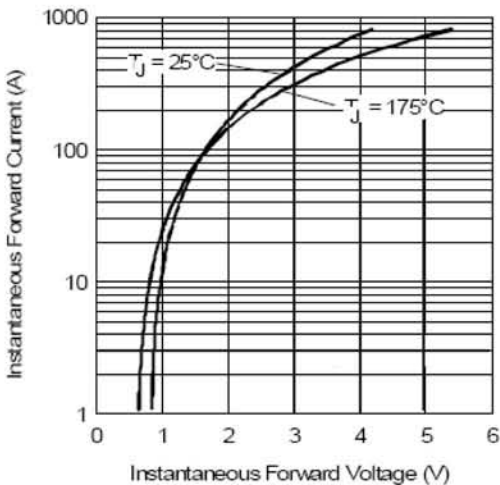


FIG.6

