STANDARD RECOVERY DIODE

Features

1.152D(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

152	D	(R)	04 - 16	B
(1)	(2)	(3)	(4)	(5)

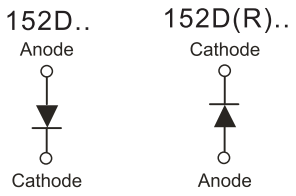
(1) Maximum average forward current,A

(2) D-for standard recovery diodes

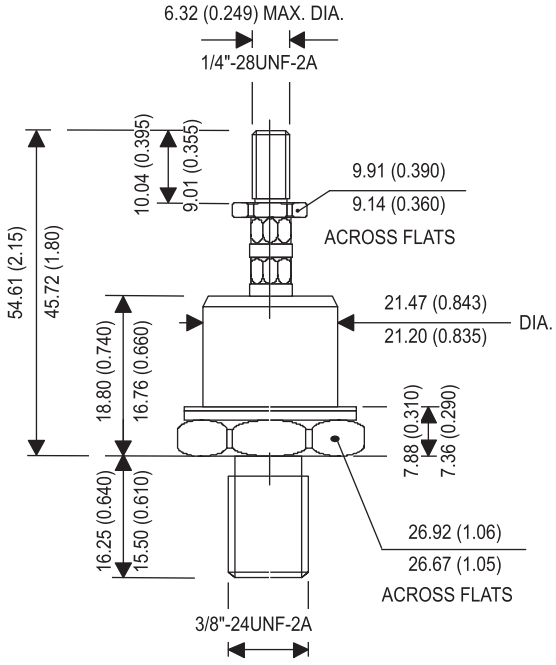
(3) Polarity code :
R-reverse polarity (Anode to Stud)
Omit this position for normal polarity types

(4) Voltage code , V (code x 100 = V_{RRM})

(5) Case:(CERAMIC HOUSING) B:(GLASS-METAL SEAL)



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=125°C	150	A
$I_{F(RMS)}$	Max. RMS forward Current		235	A
V_{RRM}	Repetitive peak reverse voltage	t_p=10 ms ,V_{RMS}=V_{RRM}x1.1	400 to1600	V
I_{FSM}	Surge forward current	t_p=10ms half sine wave No voltage reapplied	3000	A
I^2t	I^2t for fusing		45	KA^2S
V_{FM}	Peak forward voltage	I_{FM}=900A , T_j=25°C	1.4	V
r_f	Slope resistance	@T_j=T_j MAX	0.97	mΩ
$V_{F(TO)}$	Threshold Voltage		0.8	V
T_{stg}	Storage temperature range		-40 to180	°C
$R_{th(j-c)}$	Thermal resistance (junction to case)		0.3	K/W
W_t	Approximate weight		120	g
T	Max. Allowed mounting torque	Not lubricated threads	14	Nm

FIG.1 Current Ratings Characteristics

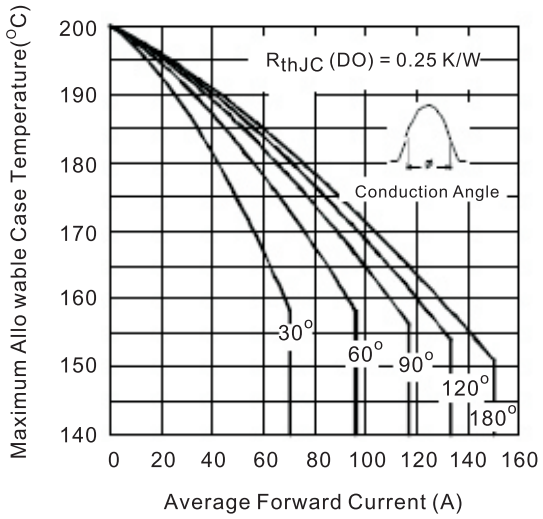


FIG.2 Current Ratings Characteristics

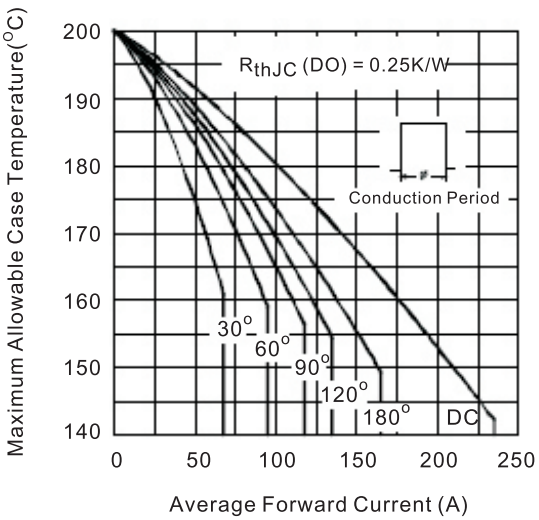


FIG.3 Maximum Non-Repetive Surge Current

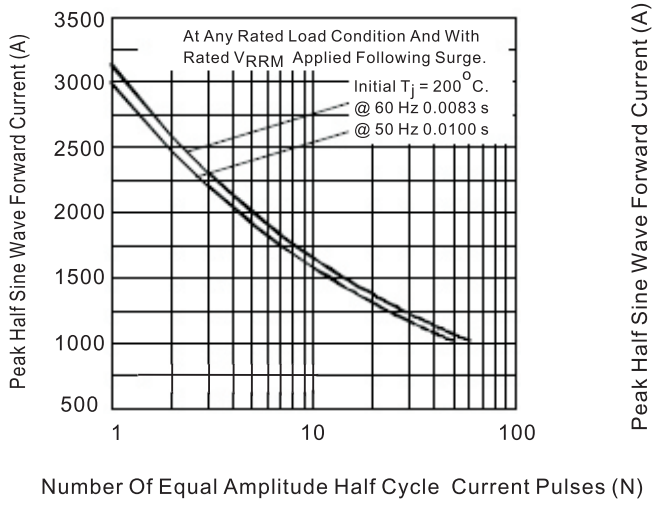


FIG.4 Maximum Non-Repetive Surge Current

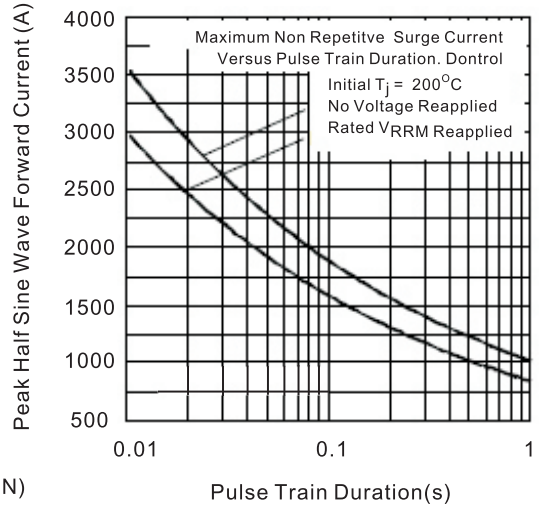


FIG.5 Forward Voltage Drop Characteristics

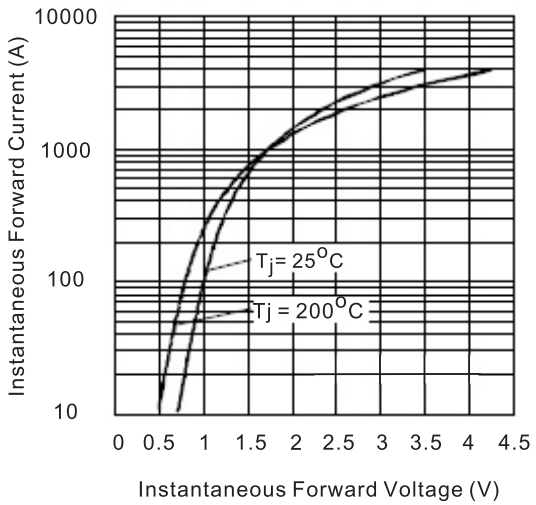
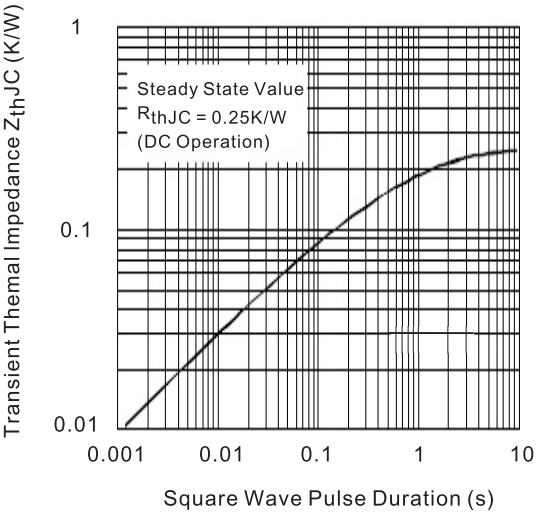



FIG.6 Thermal impedance Z_{thJC} Characteristics