

Features

STANDARD RECOVERY DIODE

1. 40D(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

40 D (R) 04 M

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

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

40D..

Anode



Cathode

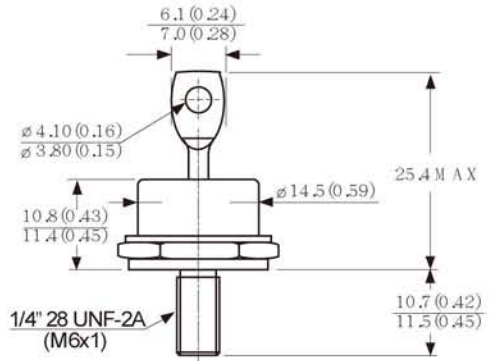
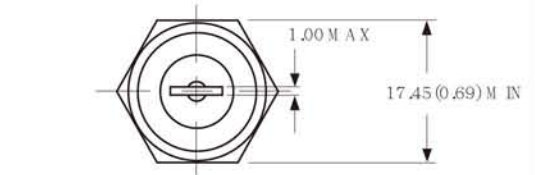
40D(R)..

Cathode



Anode

STUD TYPE (DO-5)



All dimensions in millimeters (inches)

Electrical Characteristics

Symbol	Parameter	Condition	Value	Unit
$I_F(AV)$	Maximum average forward current	180° conduction, half sine wave $T_c=150^\circ C$	40	A
$I_{F(RMS)}$	Max. RMS forward Current		66	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ ms } V_{RMS} = V_{RRM} \times 1.1$	400 to 1600	V
I_{FSM}	Surge forward current	$t_p=10\text{ms half sine wave}$ No voltage reapplied	580	A
I^2t	I^2t for fusing		1700	A^2S
VFM	Peak forward voltage	$I_{FM}=900A, T_j=25^\circ C$	1.3	V
r_f	Slope resistance	@ $T_j=T_j\text{ MAX}$	4.29	$m\Omega$
$V_{F(TO)}$	Threshold Voltage		0.65	V
Tstg	Storage temperature range		-40 to 200	$^\circ C$
$R_{th(j-c)}$	Thermal resistance (junction to case)		0.95	K/W
Wt	Approximate weight		17	g
T	Max. Allowed mounting torque	Not lubricated threads	3.4	Nm

FIG .1

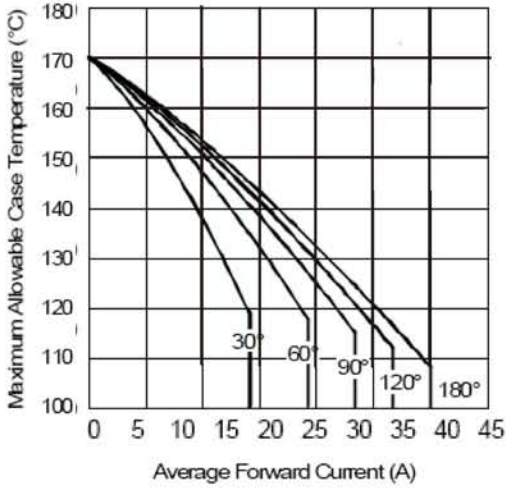


FIG 2

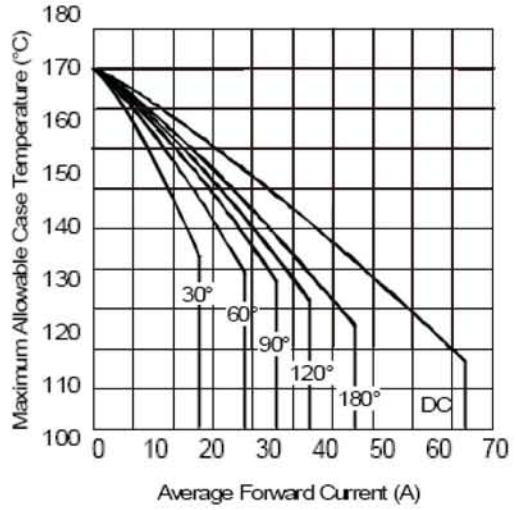


FIG .3

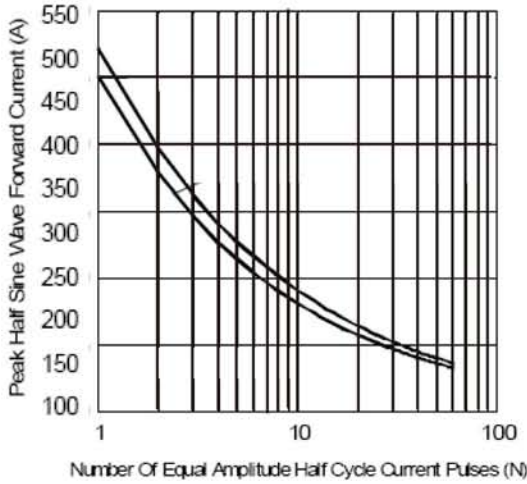


FIG 4

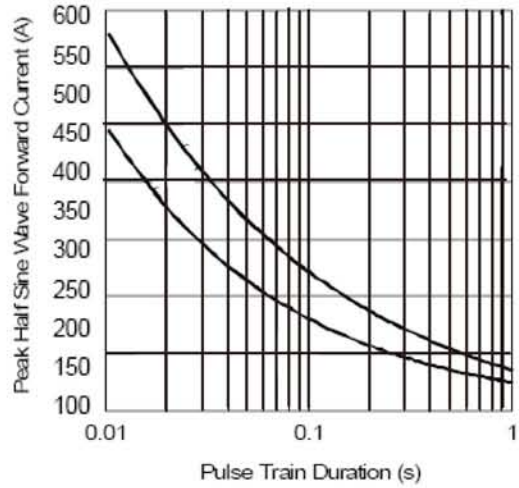


FIG .5

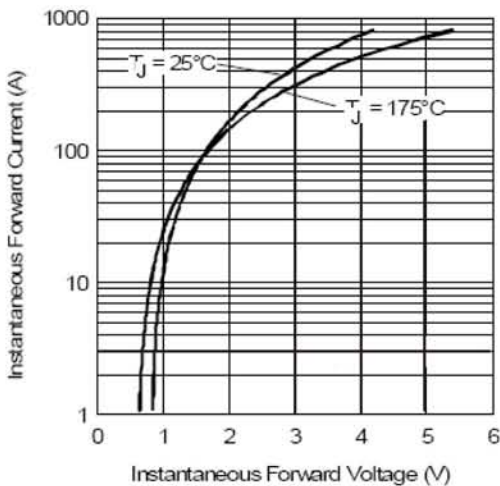


FIG .6

