



STANDARD RECOVERY DIODES

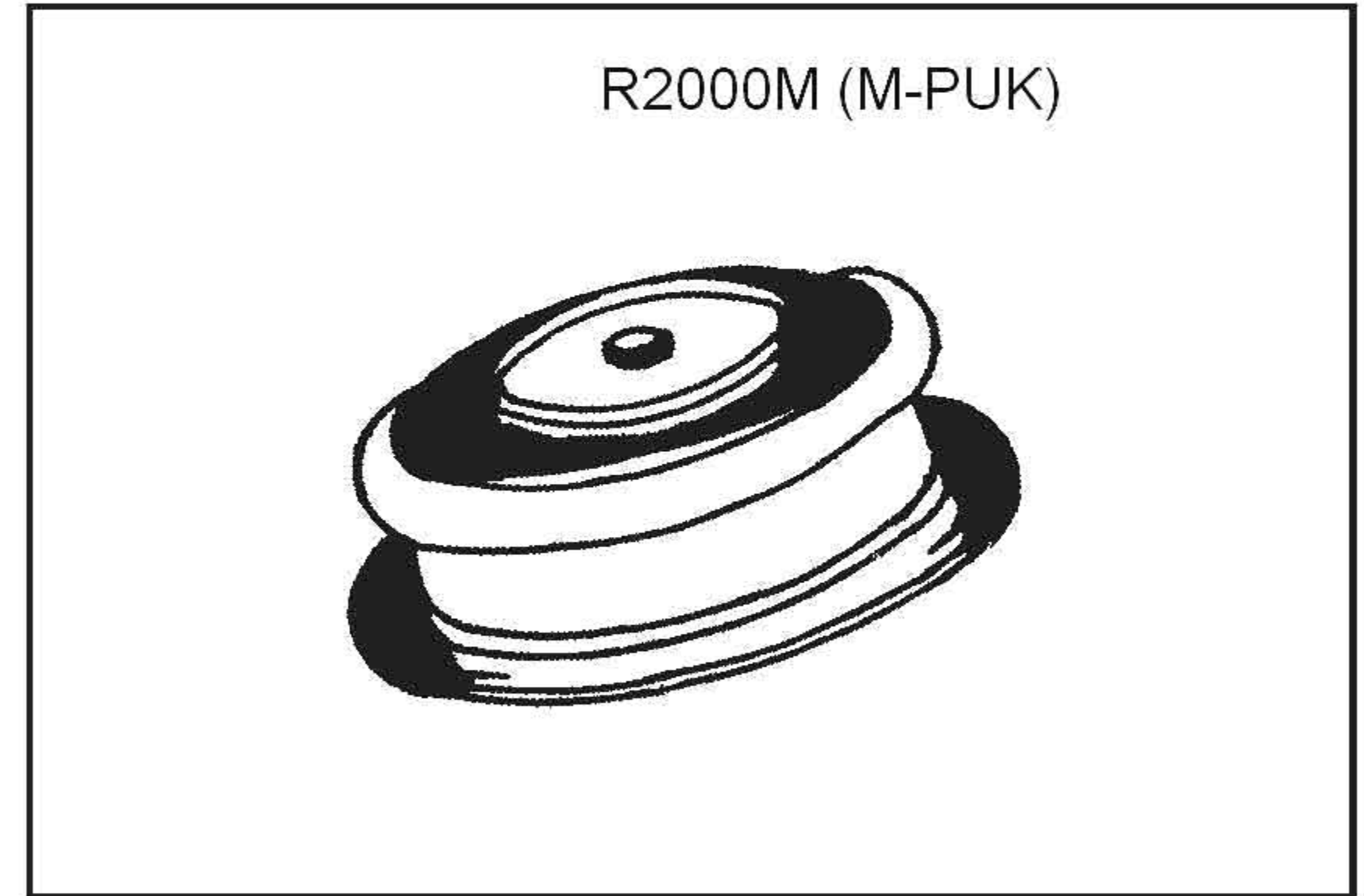
High Power Diodes Hockey Puk Version R2000 L/M...C Series

FEATURES

- ▣ Wide current range
- ▣ High surge current capabilities
- ▣ Case style (L/M-PUK)

TYPICAL APPLICATIONS

- ▣ Converters
- ▣ High power drives
- ▣ Power supplies
- ▣ Traction Application



MAJOR RATINGS & CHARACTERISTICS

Parameters	R2000L/M	Units
$I_{F(AV)}$	2000	A
@ T_{hs}	55	°C
$I_{F(RMS)}$	3140	A
@ T_{hs}	55	°C
I_{FSM} @ 50 Hz	21800	A
I^2t @ 50 Hz	2376	KA ² s
V_{RRM} range	5000 to 6000	V
T_J	-40 to 160	°C

STANDARD RECOVERY DIODES

R2000L/M

ELECTRICAL SPECIFICATION VOLTAGE RATINGS

Type Number	Voltage Code	V_{RRM} , max. repetitive peak reverse voltage V	V_{RRM} , max. non-repetitive peak reverse voltage V	I_{DRM} max. @ $T_J = 125^\circ\text{C}$ mA
R 2000L/M	50	5000	5100	200
	55	5500	5600	
	60	6000	6100	

FORWARD CONDUCTION

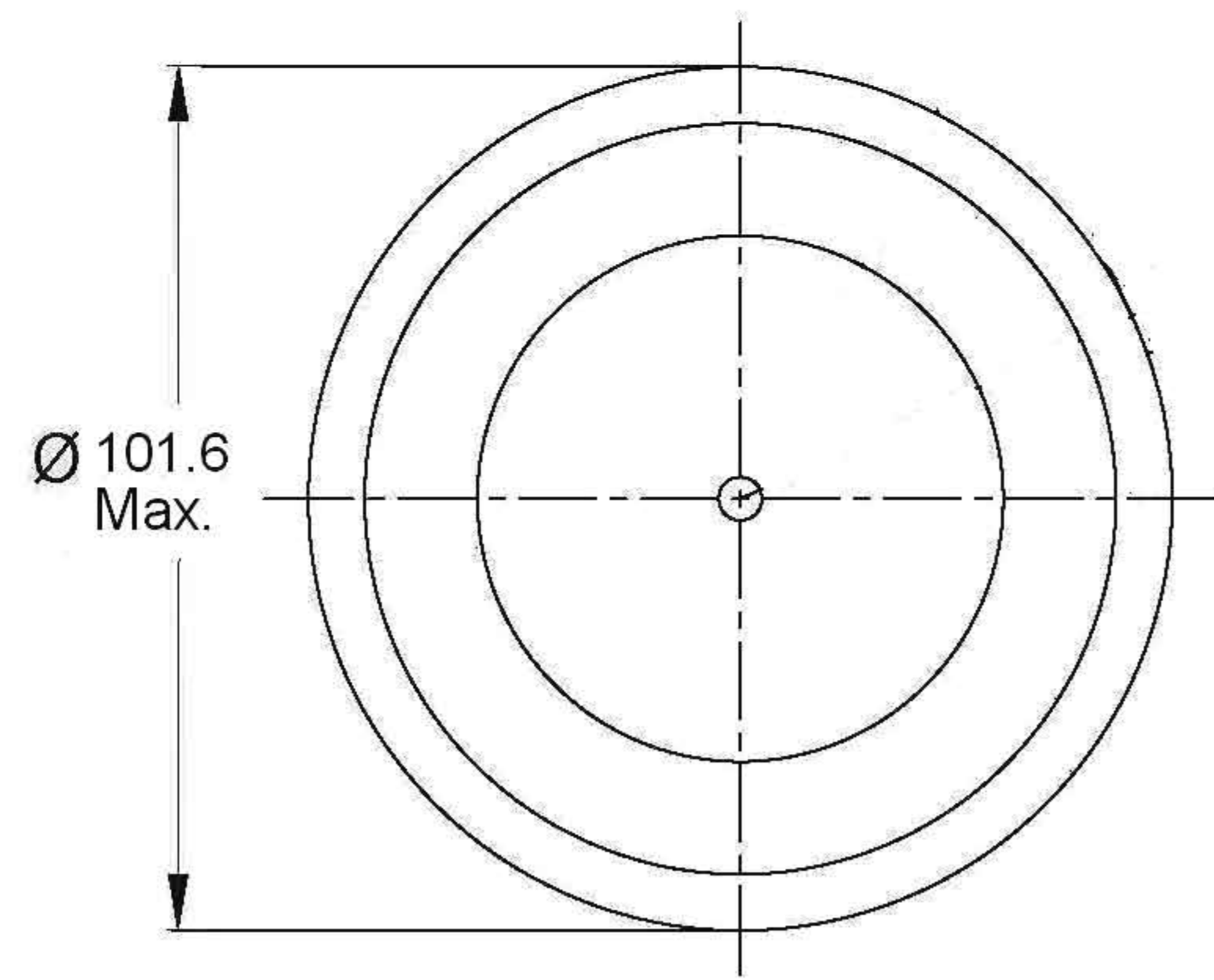
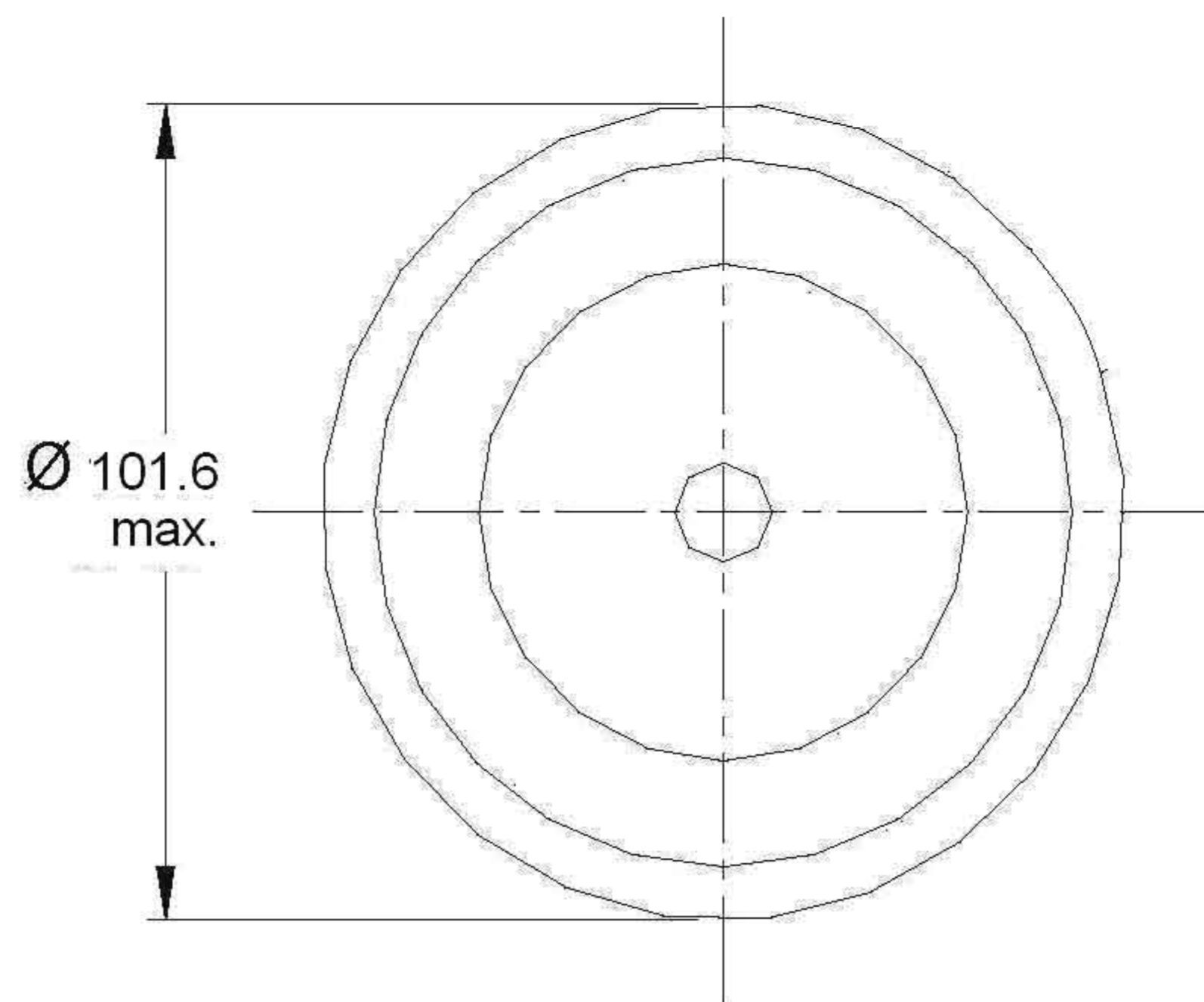
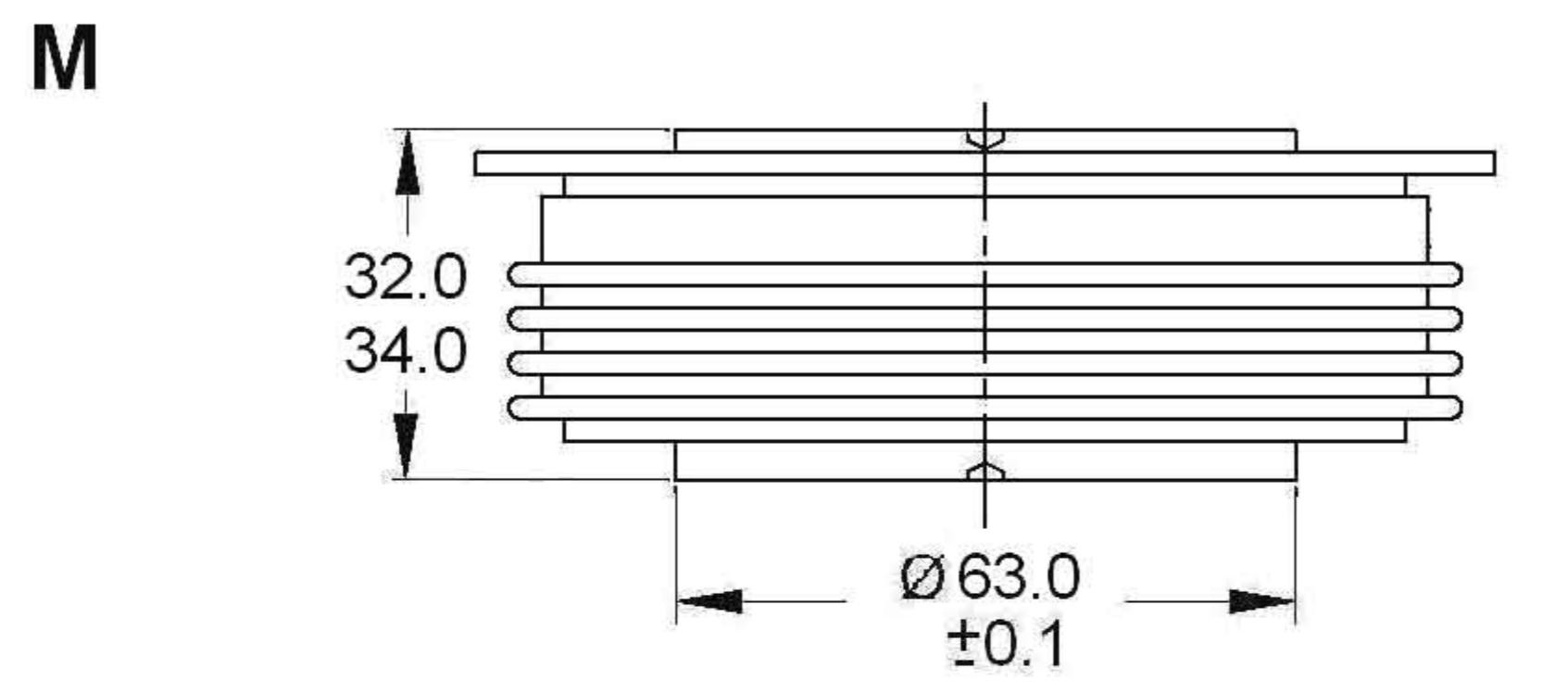
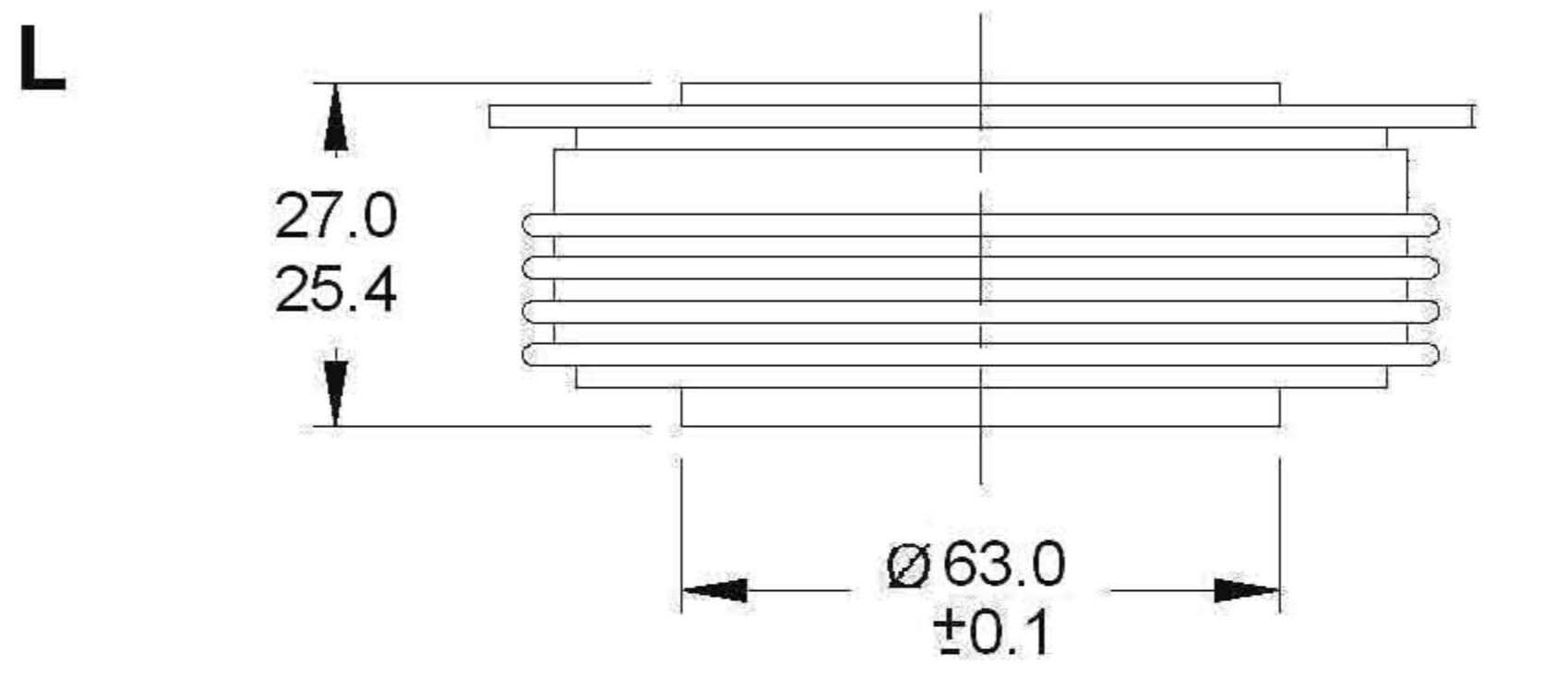
	Parameter	R2000L/M	Units	Conditions
$I_{F(AV)}$	Max. average Forward current @ heat sink temperature	2000	A	180° conduction, half sine wave double side cooled
		55	°C	
$I_{F(RMS)}$	Max. RMS Forward current	3140		@55° heat sink temperature (double side cooled)
I_{FSM}	Max. peak one cycle Forward non-repetitive surge current	21800	A	t = 10ms Sinusoidal half wave, Initial $T_J = T_J$ max.
I^2t	Maximum I^2t for fusing	3265	KA ² s	t = 10ms
V_{TO}	Threshold voltage	0.96	V	$T_J = T_J$ max.
r_{fl}	Forward slope resistance	0.42	mΩ	$T_J = T_J$ max.
V_{FM}	Max. Forward voltage drop	1.45	V	$I_{pk} = 3000\text{A}$, $T_J = T_J$ max., $t_p = 10\text{ms}$ sine pulse

THERMAL AND MECHANICAL SPECIFICATION

	Parameter	R2000L/M	Units	Conditions
T_J	Max. operating temperature range	-40 to 160	°C	
T_{stg}	Max. storage temperature range	-40 to 160		
R_{thJ-hs}	Max. thermal resistance, junction to heat sink	0.017	°C/W	DC operation double side cooled
F	Mounting force,	30	KN	
w t	Approximate weight	850/1000	g	
	Case style	(L/M-PUK)		See outline

STANDERD RECOVERY DIODE ERS

R2000L/M Series



All dimension in millimeters