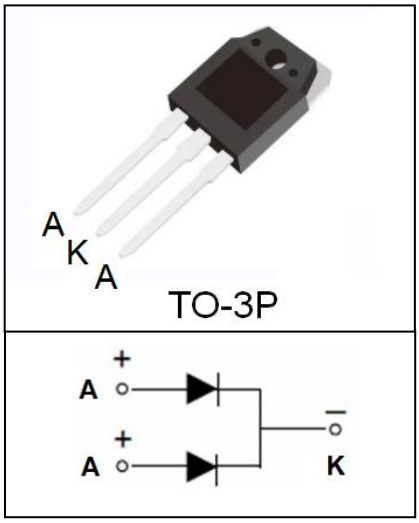
MURP60S20-2O

200V Fast Recovery Diode

●Features：

- ■Common Cathode Structure
- ■Low Power Loss and High Efficiency
- ■Low Reverse Recovery Current
- ■Soft Recovery
- ■Ultrafast Recovery



●Application:

- ■ Switch Power Supply
- ■ UPS Free Wheeling Diode
- ■ PFC Boost Diode
- ■ Snubber Diode

Absolute Maximum Ratings(Tc=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	200	V
$I_{F(AV)}$	Average Rectified Forward Current	30(Per Leg) 60(Per Device)	A
I_{FSM}	Peak Forward Surge Current,8.3ms Half Sine wave	300	A
Tj	Operating Junction Temperature	150	°C
Tstg	Storage Temperature Range	-50 to+150	°C

Thermal Characteristics(Tc=25°C unless otherwise noted)

Symbol	Parameter	Max	Unit
$R_{\theta JC}$	Thermal Resistance,Junction to Case Per Leg	0.93	°C /W

Electrical Characteristics(Tc=25°C unless otherwise noted)

Symbol	Parameter	Test Conditons	Min	Typ	Max	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	I_R=250μA	200	--	--	V
I_R	Reverse Current	V_R =200V Tc=25°C	--	--	10	μA
		V_R =200V Tc=125°C	--	--	500	
V_F	Forward Voltage	I_F=30A Tc=25°C	--	1.0	1.2	V
		I_F=30A Tc=125°C	--	0.9	1.1	
t_{rr}	Reverse Recovery Time	I_F=0.5A I_R=1.0A I_{rr}=0.25A	--	30	50	ns

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

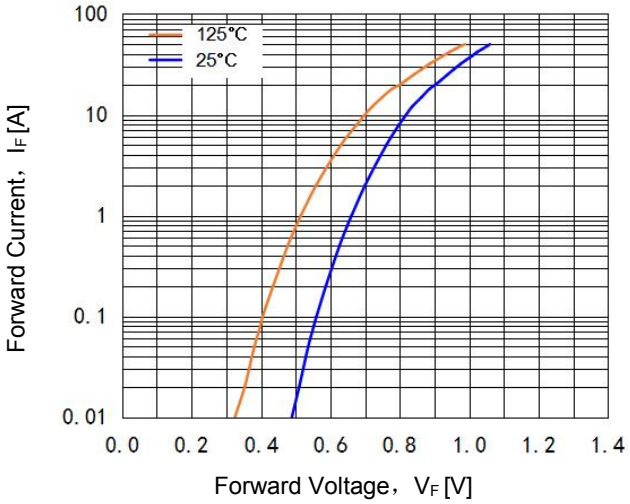


Figure 2. Reverse Leakage Current

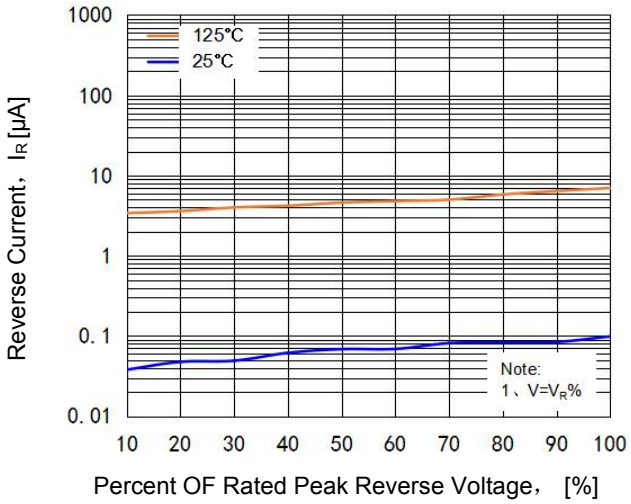


Figure 3. Junction Capacitance

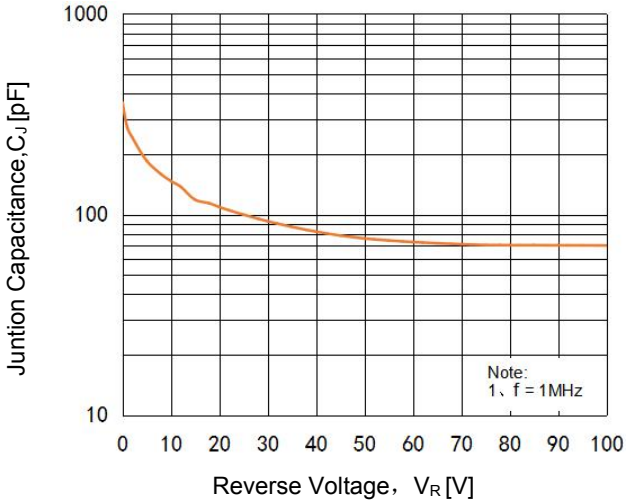
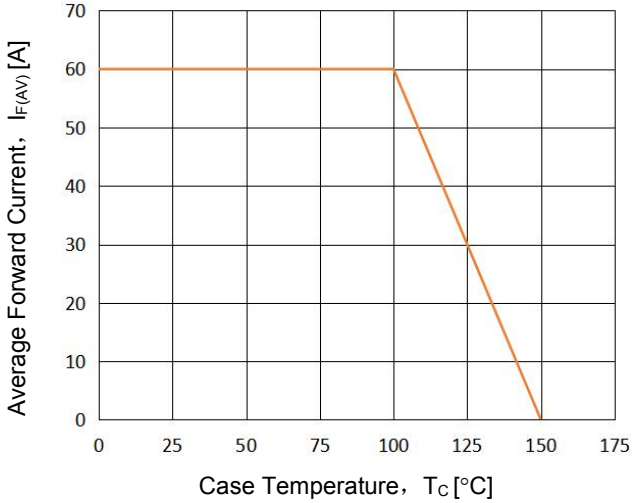


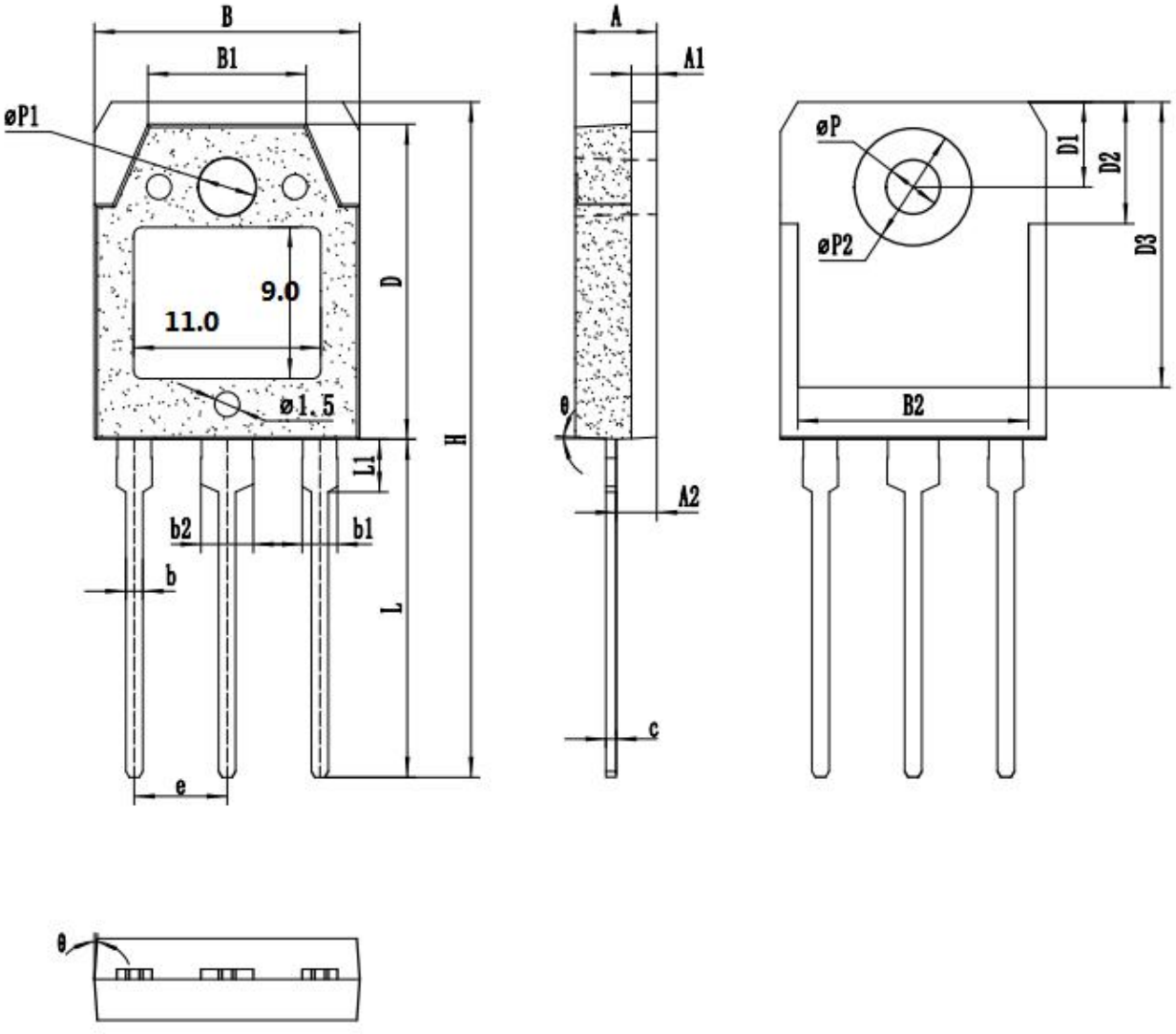
Figure 4. Forward Current Derating Curve



TO-3P Package Dimensions

UNIT：mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	4.50	4.80	5.10	D	18.00	18.50	19.00
A1	1.40	1.50	1.60	D1	4.60	5.00	5.40
A2	2.10	2.40	2.70	D2	6.70	7.10	7.50
b	0.80	1.00	1.20	D3	16.20	16.70	17.20
b1	1.90	2.10	2.30	L1	2.70	3.10	3.50
b2	2.90	3.10	3.30	L	19.20	20.20	21.20
e		5.45		H	38.40	39.90	41.40
B	15.20	15.70	16.20	ΦP	2.90	3.15	3.40
B1	9.10	9.40	9.70	ΦP1	3.15	3.40	3.65
B2	13.20	13.60	14.00	ΦP2	6.70	7.00	7.30
c	0.50	0.60	0.70	θ	3°	5°	7°



注意事项：

1、在电路设计时请不要超过器件的最大额定值，否则会影响整机的可靠性。

2、如需安装散热片，请注意控制扭力大小及散热片的平整度。

3、该规格书由华科公司制作，并可能不定期更改，恕不另行通知。

4、如有疑问，请及时联系我司销售代表。

版本履历表：

序号	版本号	修改时间	修改记录
1	V1.0	2023-5-10	首次发行