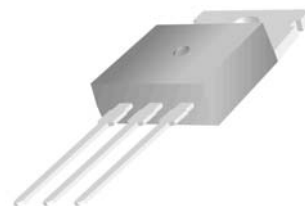


●Features:

- Common Cathode Structure
- Low Power Loss and High Efficiency
- Low Forward Voltage Drop
- High Surge Capability

●Application:

- High Frequency Switch
- Free Wheeling, and Polarity Protection Applications



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

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	400	V
V _R	Maximum DC Reverse Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current, T _c =120°C	5(Per Leg) 10(Per Device)	A
I _{FSM}	Peak Forward Surge Current, 8.3ms Half Sine wave	100	A
T _j	Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C

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

Symbol	Parameter	Max	Unit
R _{θJC}	Thermal Resistance, Junction to Case Per Leg	2.5	°C /W
R _{θJA}	Thermal Resistance, Junction to Ambient Per Leg	105	°C /W

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

Symbol	Parameter	Test Conditions	Min	Max	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	I _R =100μA	400		V
I _R	Reverse Current	V _R =400V T _c =25°C V _R =400V T _c =125°C		0.1 5	mA
V _F	Forward Voltage	I _F =5A T _c =25°C I _F =5A T _c =125°C I _F =10A T _c =25°C I _F =10A T _c =125°C		1.20 1.10 1.30 1.20	V
T _{rr}	Maximum Reverse Recovery Time	I _F =0.5A I _R =1.0A I _{rr} =0.25A		50	ns

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

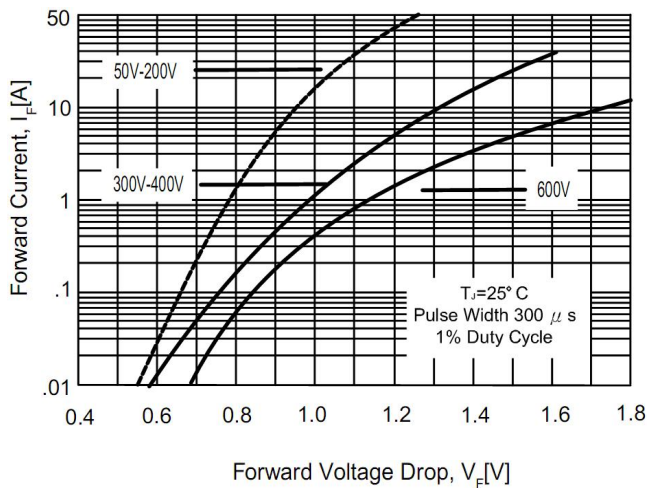


Figure 2. Reverse Leakage Current

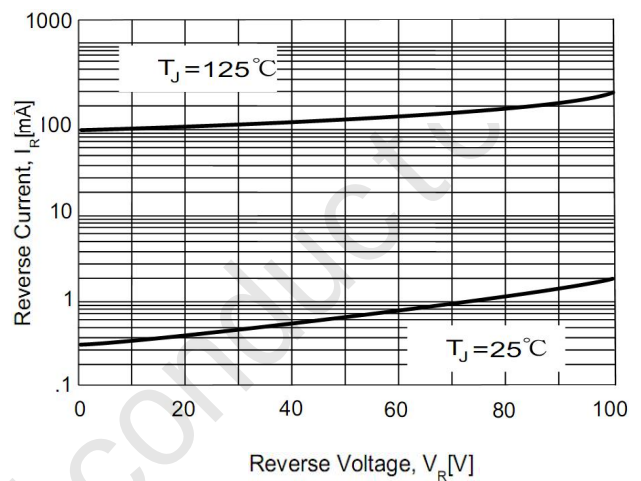


Figure 3. Junction Capacitance

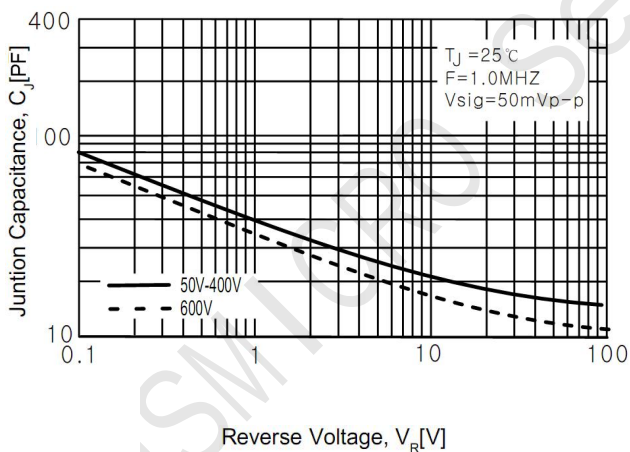
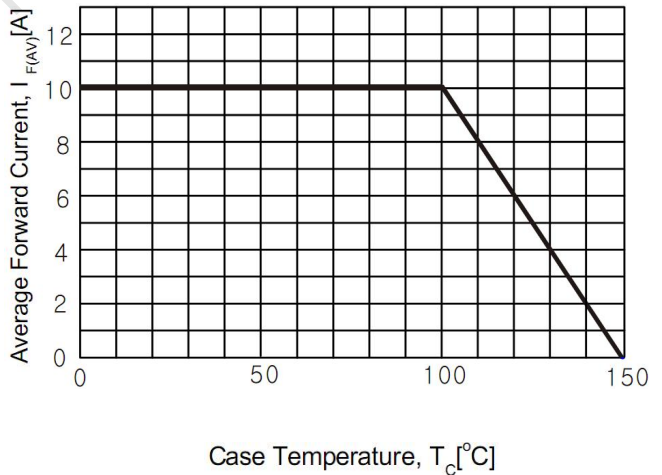
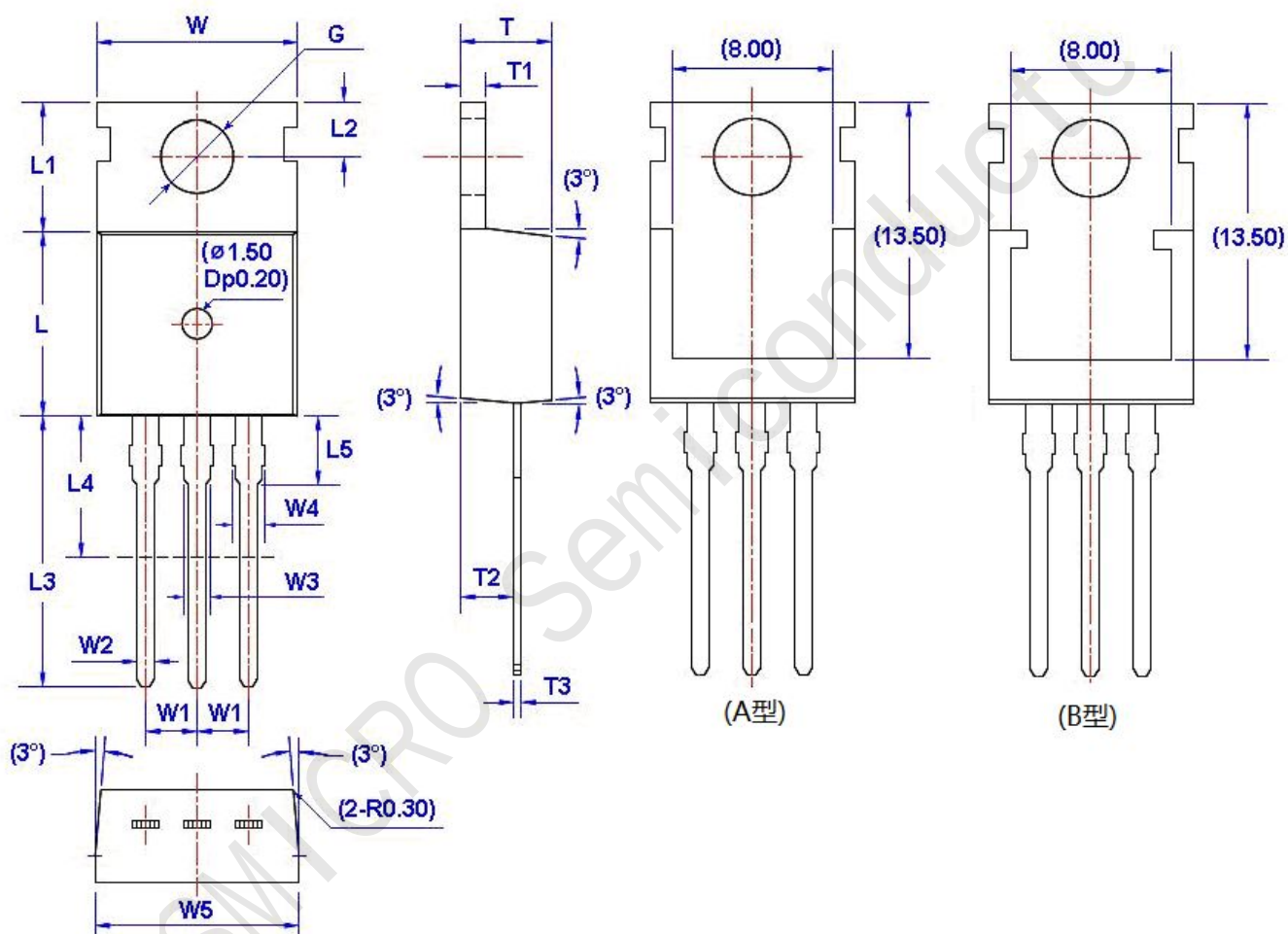


Figure 4. Power Derating



TO-220AB

Unit: mm



Symbol	Size		Symbol	Size		Symbol	Size		Symbol	Size	
	Min	Max		Min	Max		Min	Max		Min	Max
W	9.66	10.28	W5	9.80	10.20	L4**	6.20	6.60	T3	0.45	0.60
W1	2.54 (TYP)		L	9.00	9.40	L5	2.79	3.30	G(Φ)	3.50	3.70
W2	0.70	0.95	L1	6.40	6.80	T	4.30	4.70			
W3	1.17	1.37	L2	2.70	2.90	T1	1.15	1.40			
W4*	1.32	1.72	L3	12.70	14.27	T2	2.20	2.60			