

Rev.F Mar.-2016

Schottky Barrier Diode in a TO-3P Plastic Package.

Low forward voltage drop, low power losses, High efficiency operation.

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

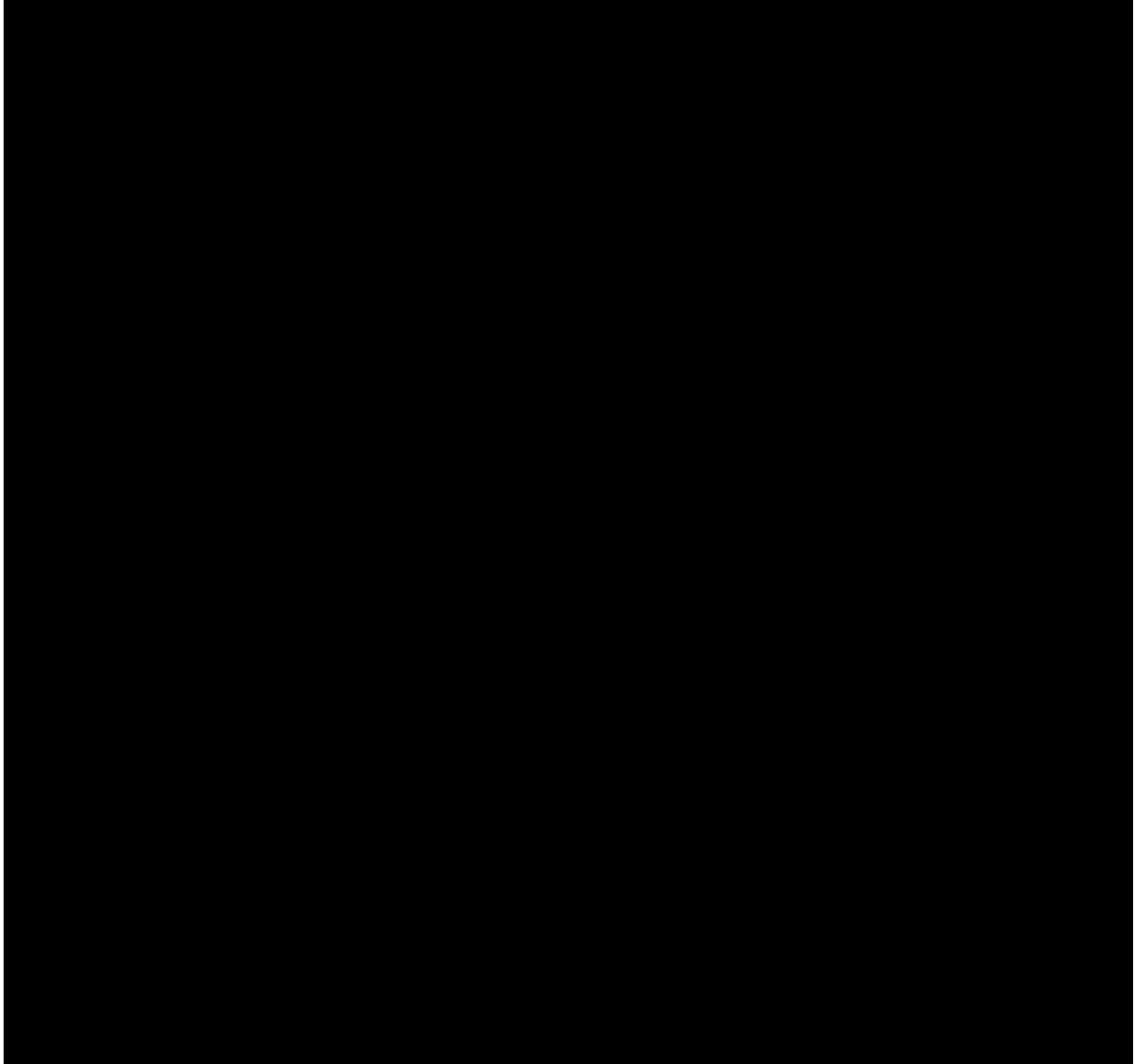
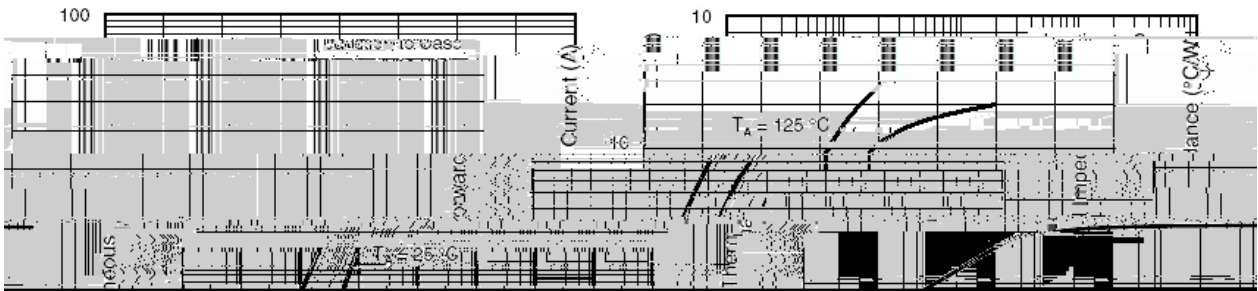
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RM}$ $V_{RWM}$ $V_{DC}$	200	V
RMS Reverse Voltage	$V_{RMS}$	140	V
Average forward current	$I_{F(AV)}$	2× 15	A
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	200	A
Thermal Resistance Junction to Ambient case	$R_{Jc}$	1.4	/W
Operating and Storage Temperature Range	$T_j$ $T_{stg}$	-40 +150	

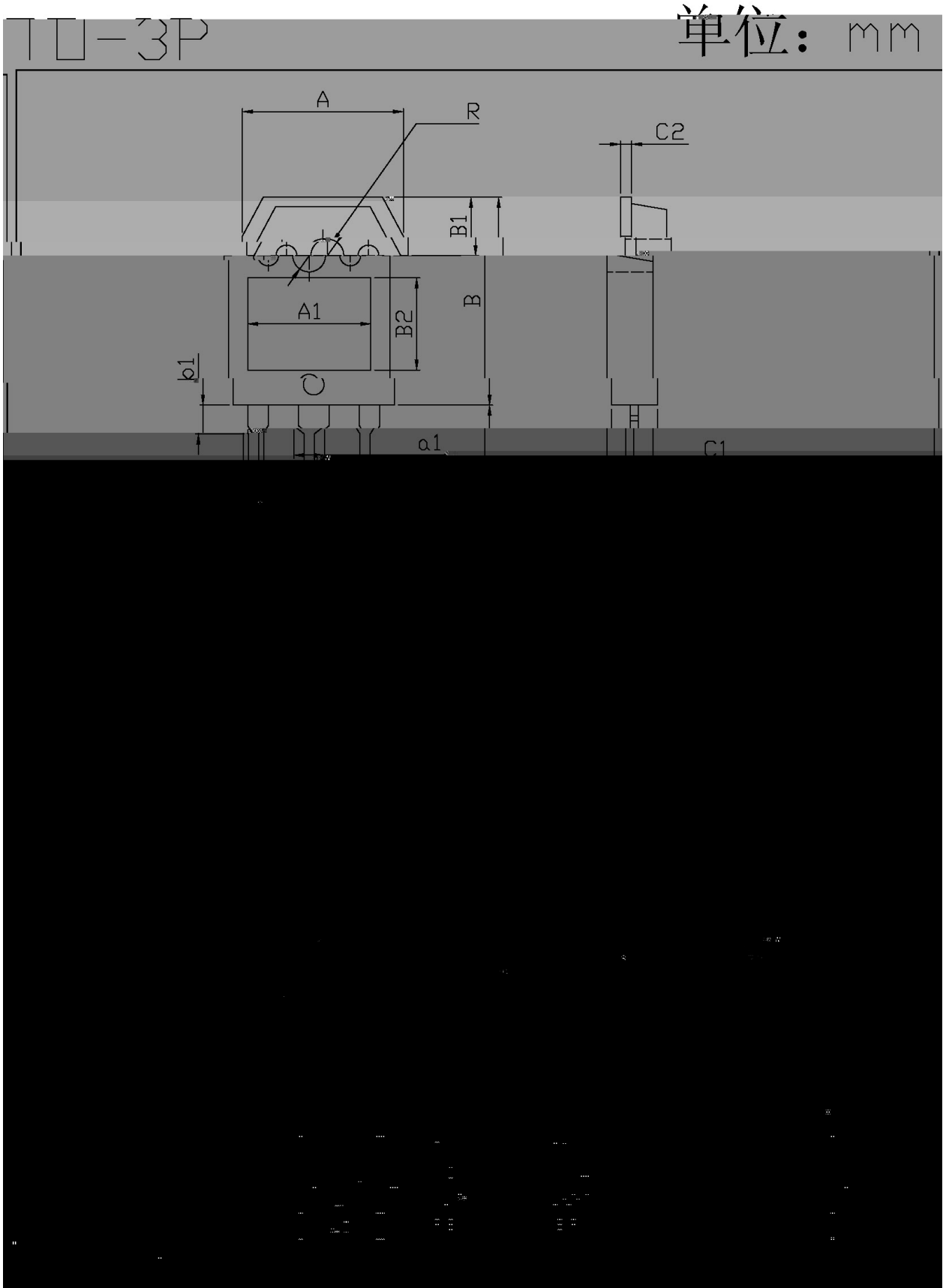
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{BR}$	$I_R=1mA(T_a=25^\circ C)$	200			V
Forward Voltage	$V_F$	$I_F=5A(T_a=25^\circ C)$		0.73	0.85	V
		$I_F=10A(T_a=25^\circ C)$		0.80	0.95	V
		$I_F=15A(T_a=25^\circ C)$		0.92	1.15	V
		$I_F=5A(T_a=125^\circ C)$		0.58		V
		$I_F=10A(T_a=125^\circ C)$		0.66		V
		$I_F=15A(T_a=125^\circ C)$		0.71	0.85	V
Instantaneous Reverse current (Note 1)	$I_R$ Note 1	$V_R=200V(T_a=25^\circ C)$		4	20	$\mu A$
		$V_R=200V(T_a=125^\circ C)$		5	10	mA

## Notes

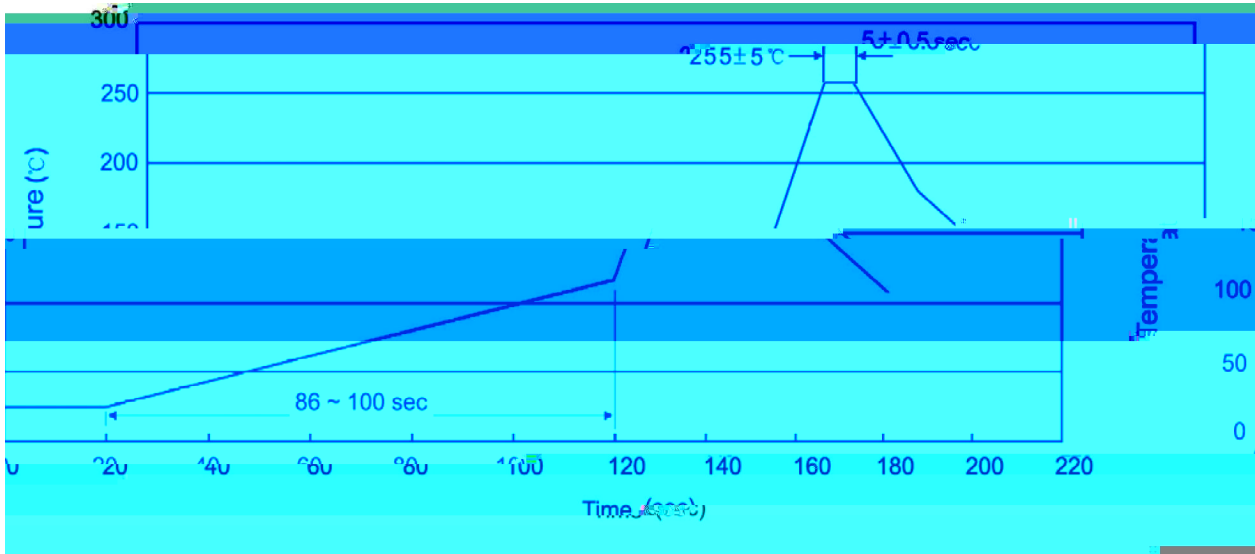
/Short duration pulse test used to minimize self-heating effect.

/ Unless otherwise noted, values for the parameters of a single chip.








**Note:**

- 1            25   150            60   90sec;
- 2            255   5                    5   0.5sec;
- 3                            2   10   /sec.

- 1.Preheating:25~150 , Time:60~90sec.
- 2.Peak Temp.:255 ± 5 , Duration:5 ± 0.5sec.
3. Cooling Speed: 2~10 /sec.

270 ± 5

10 ± 1 sec.

Temp.:270±5