

/ Descriptions

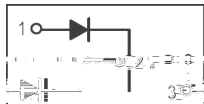
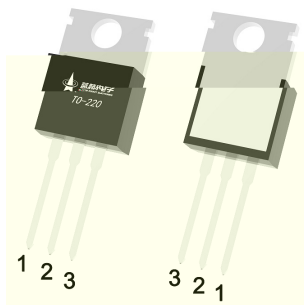
Schottky Barrier Diode in a TO-220 Plastic Package.

/ Features

Low power loss, high efficiency, HF Product.

/ Applications

For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit**/ Pinning**

PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ Marking

See Marking Instructions.

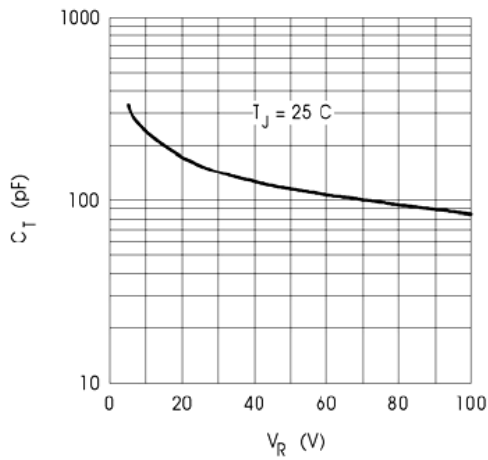
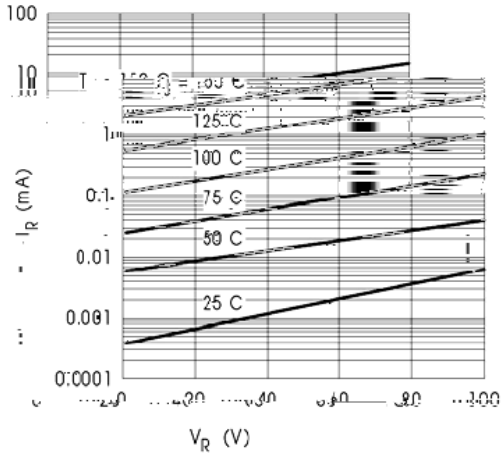
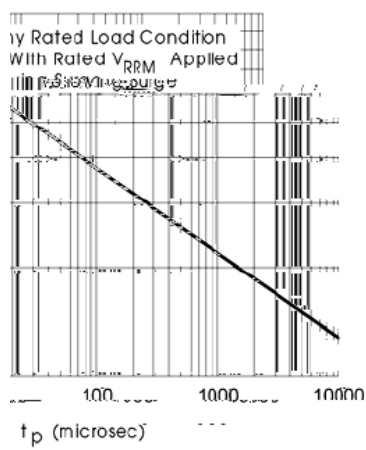
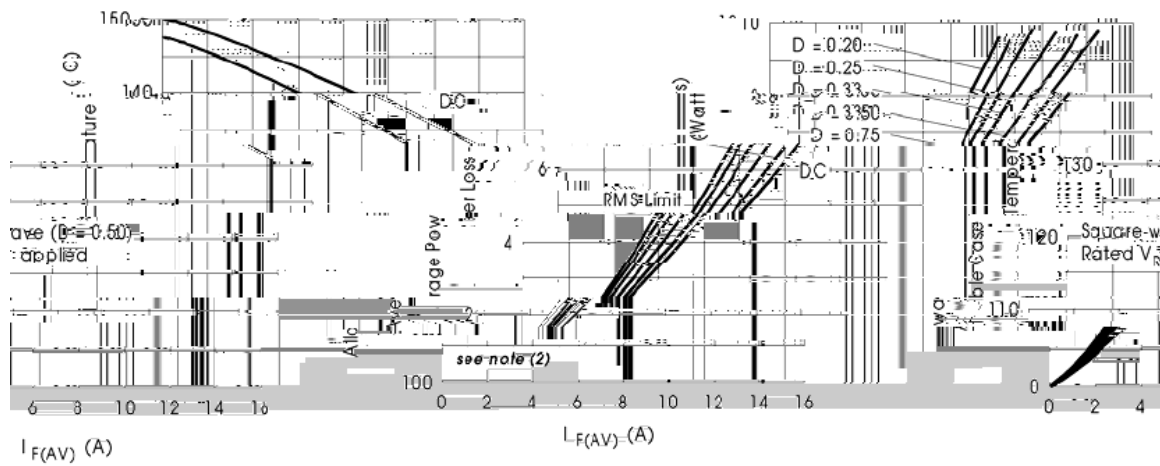
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Peak Repetitive Forward Current	I_{FRM}	20	A
Average Rectified Forward Current	$I_{F(AV)}$	10	A
	$I_{F(AV)(total)}$	20	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	150	A
Repetitive Peak Reverse Surge Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.0	/W
Junction Temperature Range	T_j	175	
Storage Temperature Range	T_{stg}	-55 175	

/ Electrical Characteristics(Ta=25)

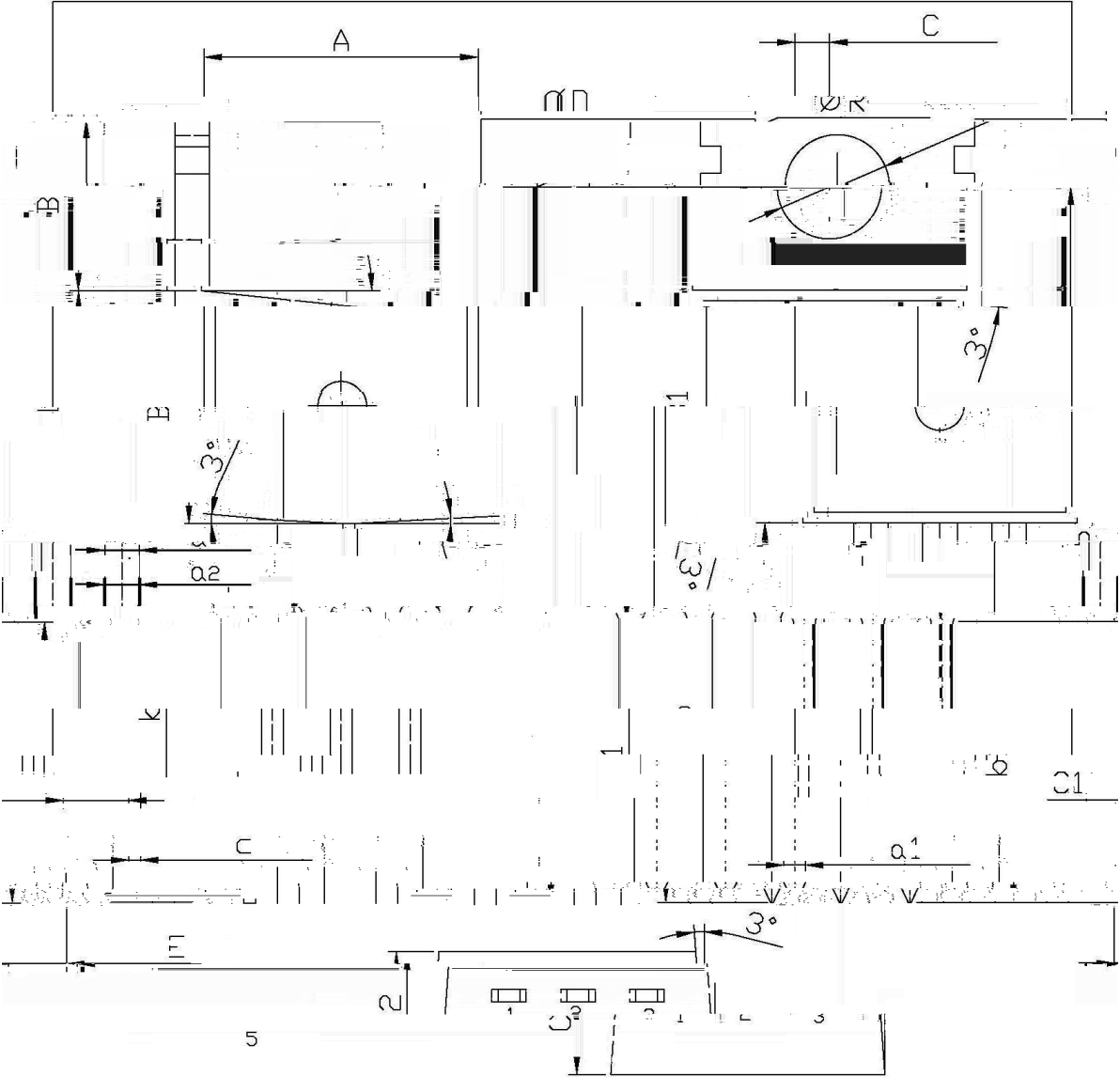
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10A(T_C=25)$			0.85	V
		$I_F=10A(T_C=125)$			0.7	V
		$I_F=20A(T_C=25)$			0.95	V
		$I_F=20A(T_C=125)$			0.85	V
Instantaneous Reverse Current	I_R	$V_R=100V(T_C=25)$			0.15	mA
		$V_R=100V(T_C=125)$			150	mA
Voltage Rate of Change	dv/dt				10000	V/μs

/ Electrical Characteristic Curve



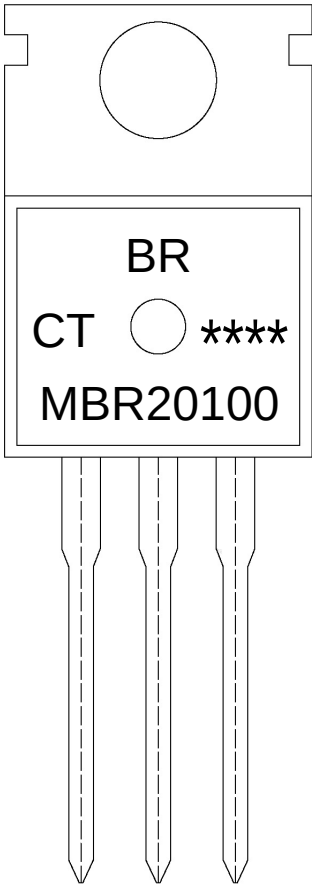
/ Package Dimensions

TO-220 单位: mm



DIMENSIONS IN MILLIMETERS			DIMENSIONS IN INCHES		
Symbol	Min.	Max.	Symbol	Min.	Max.
A	9.0	9.4	A	0.354	0.37
B	2.0	2.6	B	0.079	0.1
C	0.7	0.9	C	0.028	0.036
D	0.4	0.6	D	0.016	0.024
E	4.3	4.7	E	0.17	0.187
F			F		
G			G		
H			H		
I			I		
J			J		
K			K		
L			L		
M			M		
N			N		
O			O		
P			P		
Q			Q		
R			R		
S			S		
T			T		
U			U		
V			V		
W			W		
X			X		
Y			Y		
Z			Z		
a1			a1		
a2			a2		
b1			b1		
b2			b2		
c1			c1		
c2			c2		
d1			d1		
d2			d2		
e1			e1		
e2			e2		
f1			f1		
f2			f2		
g1			g1		
g2			g2		
h1			h1		
h2			h2		
i1			i1		
i2			i2		
j1			j1		
j2			j2		
k1			k1		
k2			k2		
l1			l1		
l2			l2		
m1			m1		
m2			m2		
n1			n1		
n2			n2		
o1			o1		
o2			o2		
p1			p1		
p2			p2		
q1			q1		
q2			q2		
r1			r1		
r2			r2		
s1			s1		
s2			s2		
t1			t1		
t2			t2		
u1			u1		
u2			u2		
v1			v1		
v2			v2		
w1			w1		
w2			w2		
x1			x1		
x2			x2		
y1			y1		
y2			y2		
z1			z1		
z2			z2		

/ Marking Instructions

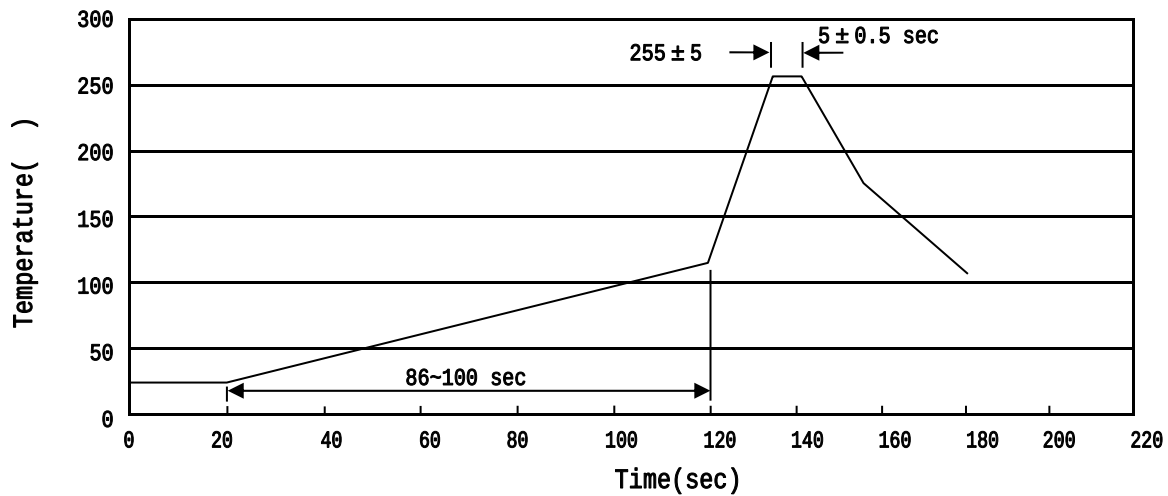


BR

Note:

BR:	Company Code
	Product Type Code
:	Internal Structure
****:	Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

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

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices