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- · Schottky Barrier Chip
- · High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- · High Forward Surge Capability
- Ultra For Power Loss, High Efficiency
- Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

Primary Characteristics			
I _F	15	Α	
V_{RRM}	100	V	
I _{FSM}	250	Α	
V_{F}	0.66	V	
T _J max	150	°C	

Mechanical Data

· Case: TO-277, molded plastic

• Terminals : Plated Leads Solderable per

MIL-STD-202, Method208

Polarity : Cathode BandMounting Position : Any

· Lead Free: For RoHS / Lead Free Version

Ordering Information			
Part No.	Remark	Package	Packing
EBRT15E100T	General	TO-277	5000 / Tape & Reel
EBRT15E100T-H	Halogen Free	10-211	3000 / Tape & Neel

Maximum Ratings (TA=25°C unless otherwise noted)			
Parameter	Symbol	EBRT15E100T	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	100	
Maximum RMS voltage	VRMS	70	V
Maximum DC blocking voltage	V _{DC}	100	
Average Rectified Output Current	I F(AV)	15	A
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load	Ifsм	250	А
I ² t Rating for Fusing (t<8.3ms)	l ² t	259.375	A ² s
Forward Voltage Drop IF=1A@TA=25°C IF=5A@TA=25°C IF=10A@TA=25°C IF=15A@TA=25°C	Vғм	0.38 Typ. 0.47 Typ. 0.55 Typ. 0.66 Max.	V
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=100°C	lr	0.3 15	mA
Typical Thormal Desistance	$R_{ heta JA}$	110	9000
Typical Thermal Resistance	$R_{ heta JL}$	3.5	°C/W
Operating and Storage Temperature Range	TJ,Tsтg	-55 to+150	°C
Marking Code		T15E100T	





Rating and Characteristics Curves

FIG. 1-Forward Current Derating Curve

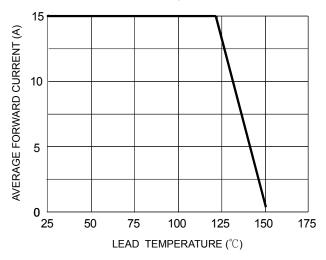


FIG. 3-Maximum Peak Forward Surge Current

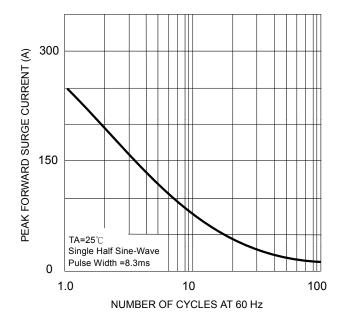


FIG. 2-Typical Forward Characteristics

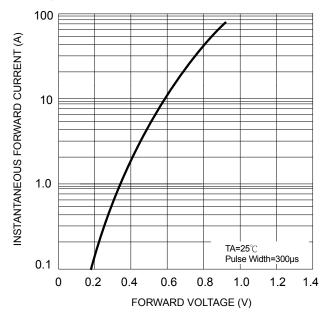
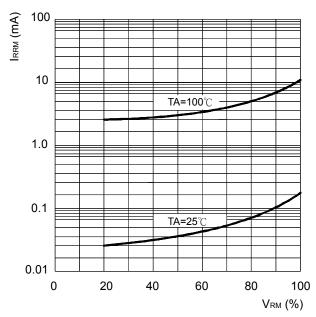
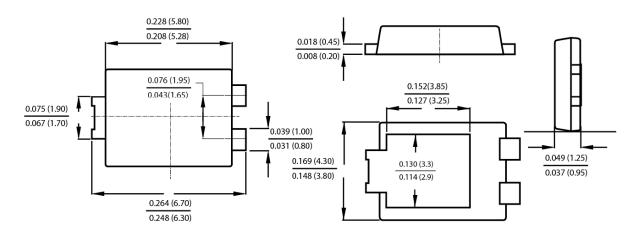


FIG. 4-Typical Reverse Characteristics

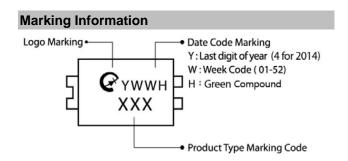




Package Outline Dimensions

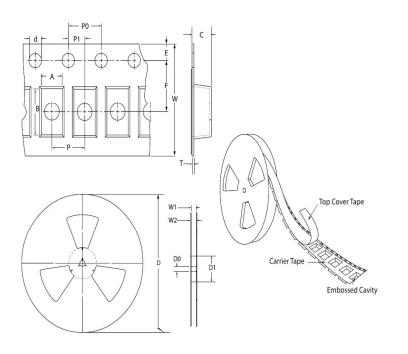


TO-277
Dimensions in inches and (millimeters)



Suggested P	ad Layout	
Outline Dimension	TO-277	
Α	1.94	D E
В	1.10	
С	3.35	c T
D	4.90	+
E	1.00	
F	1.40	→ F -
		•

Tape & Reel Specification			
ITFM	SYMBOL	TO-277	
I I CIVI	STIMBOL	(mm)	
Carrier width	А	4.38 (max)	
Carrier length	В	6.9 (max)	
Carrier depth	С	1.4±0.1	
Sprocket hole	d	1.50±0.1	
Reel outside diameter	D	330±2.0	
Feed hole diameter	D0	13.0+0.5/-0.2	
Reel inner diameter	D1	50 (min)	
Sprocket hole position	Е	1.75±0.1	
Punch hole position	F	5.5±0.05	
Sprocket hole pitch	Р	8.0±0.1	
Sprocket hole pitch	P0	4.0±0.1	
Embossment center	P1	2.0±0.1	
Overall tape thickness	Т	0.6 (max)	
Tape width	W	12.0±0.15	
Reel width	W2	20 (max)	
Reel width	W1	16 (max)	







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