



EBRT3E45M



Excellent Schottky Barrier Rectifiers



DO-15

Primary Characteristics		
I_F	3	A
V_{RRM}	45	V
I_{FSM}	30	A
V_F	0.43	V
$T_J \text{ max}$	150	°C

Features

- Guardring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC

Mechanical Data

- Cases: DO-15
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish)
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.366 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
EBRT3E45M	General	DO-15	3000 / Ammo Box
EBRT3E45M-H	Halogen Free		

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	EBRT3E45M	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	31.5	V
Maximum DC blocking voltage	V_{DC}	45	V
Maximum average forward rectified current	I_F	3	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C IF=3A @ 100°C	V_F	0.43 0.40	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5 20	mA
Typical Junction Capacitance(NOTE1)	C_j	365	pF
Typical Thermal Resistance	$R_{\theta JC}$	30	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		3E45M 、 T3E45M	

NOTES:

1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC



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Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

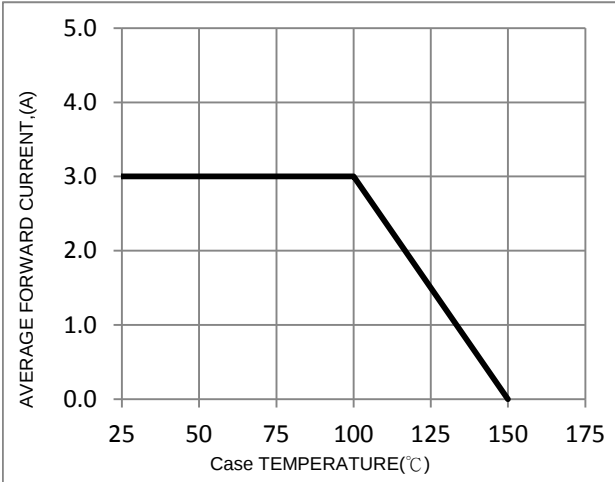


FIG. 2-Typical Forward Characteristics

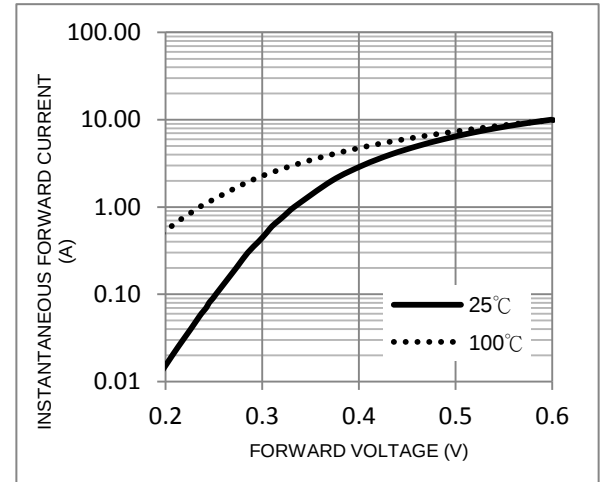


FIG. 3-Maximum Non-Repetitive Forward Surge Current

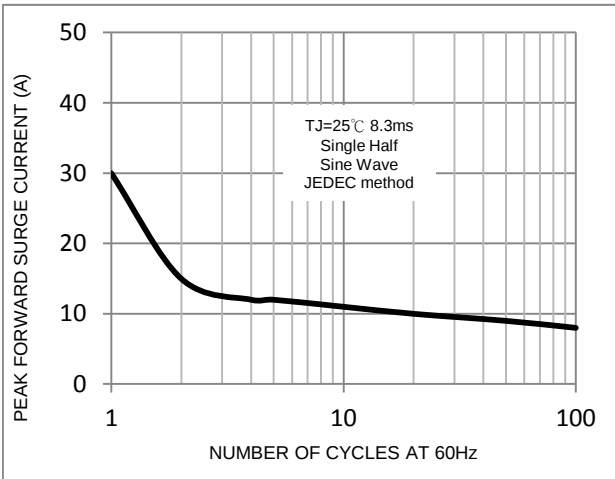


FIG. 4-Typical Reverse Characteristics

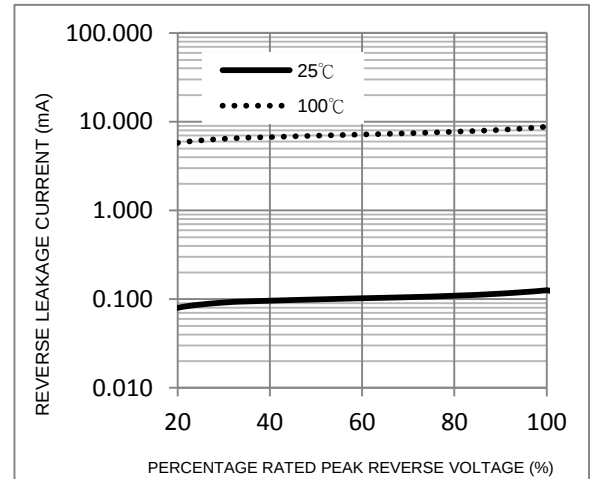
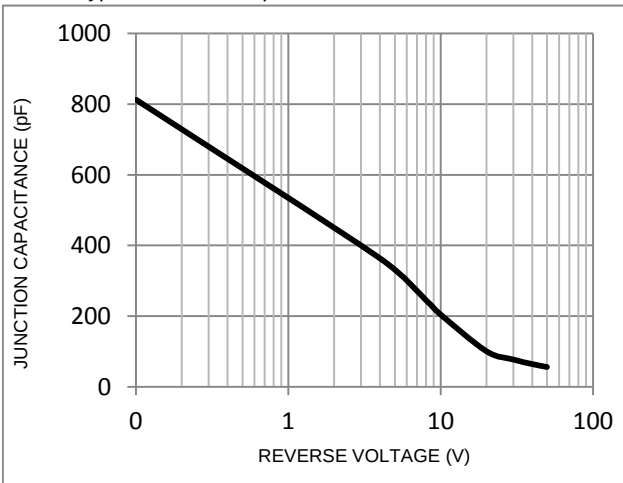


FIG. 5-Typical Junction Capacitance



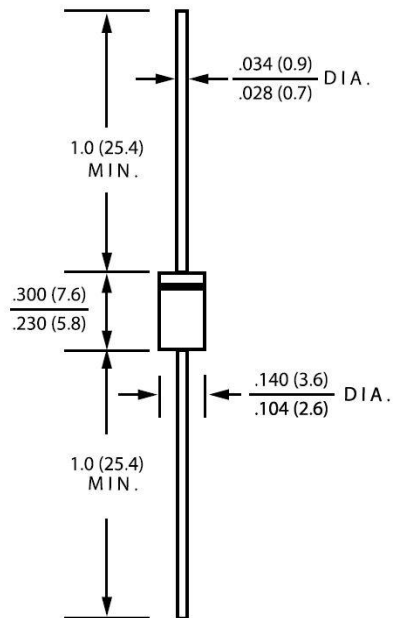


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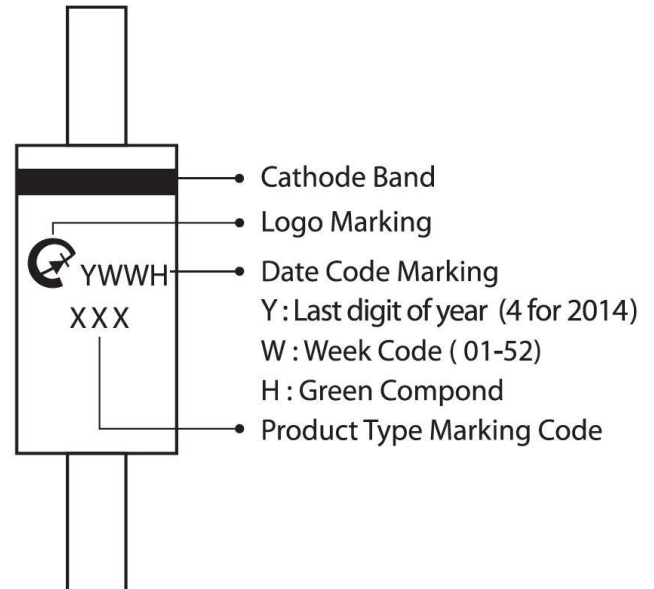
Package Outline Dimensions



DO-15

Dimensions in inches and (millimeters)

Marking Information



Ammo Box Packing

Package	Inner	BOX	Inner Box	Carton	Carton Size	Gross Weight
	Pack	(EA)	(mm)	(EA)	(mm)	(Kg)-Approx.
DO-15(DO-204AC)-52mm	Reel	3,000	245x75x90	30,000	440x280x335	14.0