



Excellent Schottky Barrier Rectifiers



DO-41

Primary Characteristics

I_F	3	A
V_{RRM}	60	V
I_{FSM}	20	A
V_F	0.54	V
$T_J \text{ max}$	125	°C

Features

- Guard Ring for Overvoltage Protection
- Very Small Conduction Losses
- Low Forward Voltage Drop

Mechanical Data

- Cases : DO-41
- 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 : 0.318 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
EBRT3E60S	General	DO-41	5000 / Ammo Box
EBRT3E60S-H	Halogen Free		

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

Parameter	Symbol	EBRT3E60S	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	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}	20	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C	V_F	0.54	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	160	pF
Typical Thermal Resistance	$R_{\theta JC}$	30	°C/W
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		3E60S · T3E60S	

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

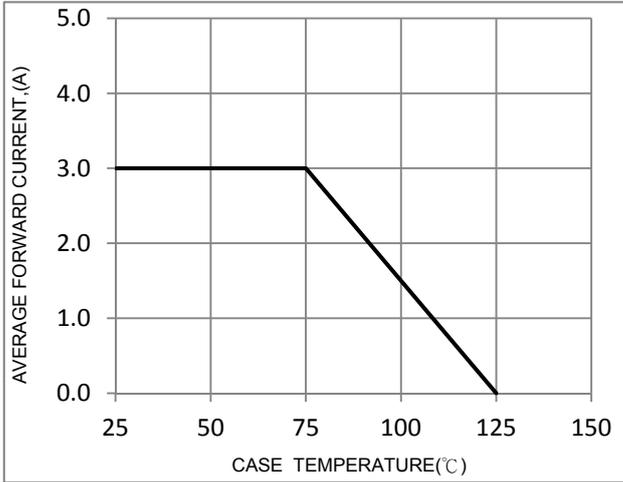


FIG. 2-Typical Forward Characteristics

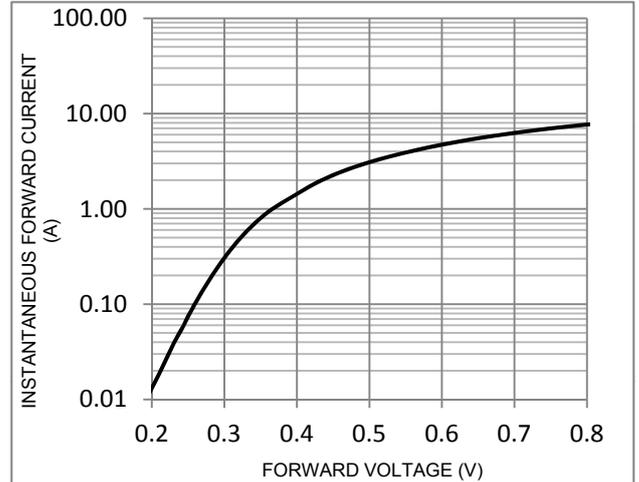


FIG. 3-Maximum Non-Repetitive Forward Surge Current

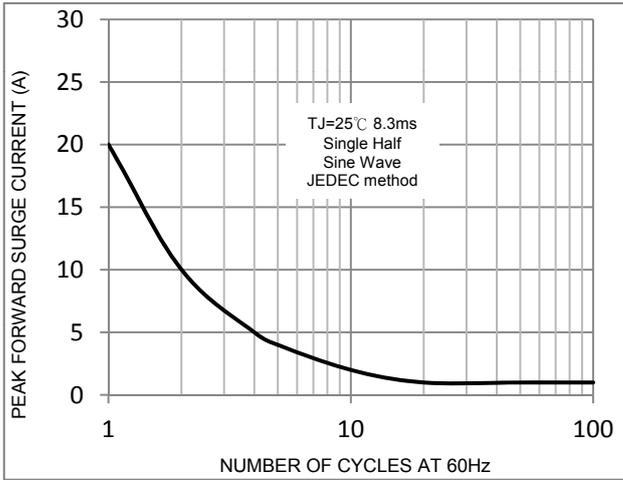


FIG. 4-Typical Reverse Characteristics

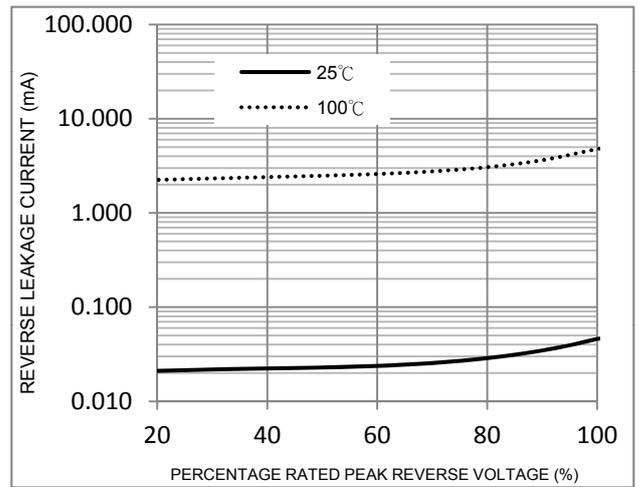
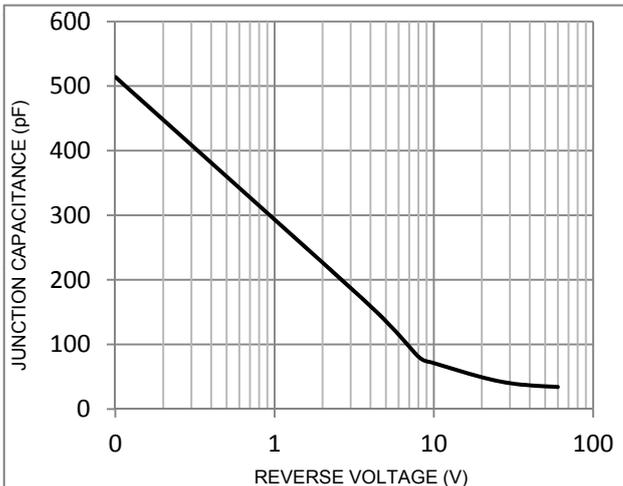


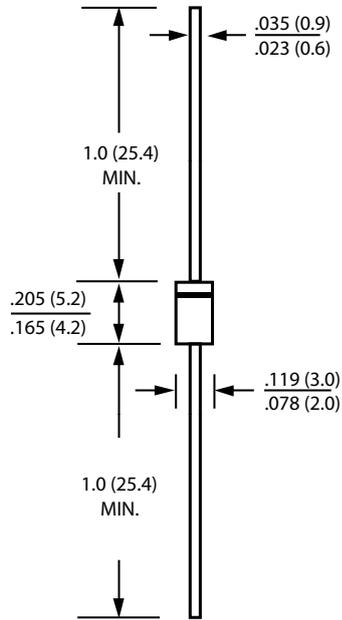
FIG. 5-Typical Junction Capacitance





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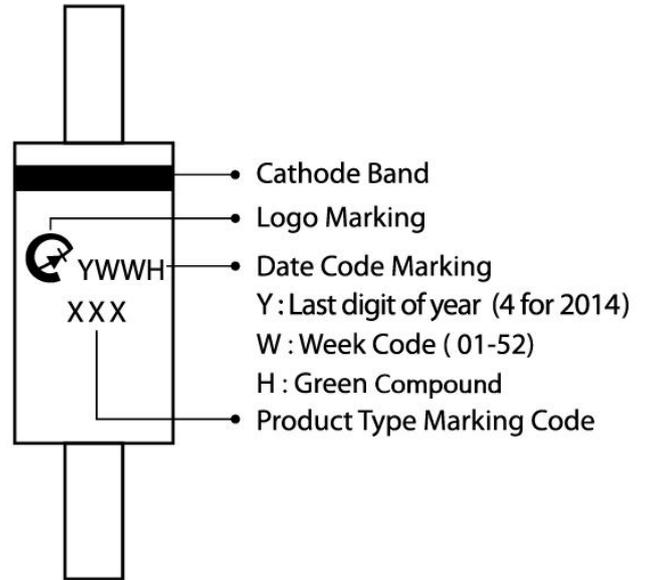
Package Outline Dimensions



DO-41

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-41 (DO-204AL)	Reel	5,000	260x75x150	50,000	420x280x320	18.5



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