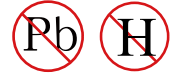




Excellent Schottky Barrier Rectifiers



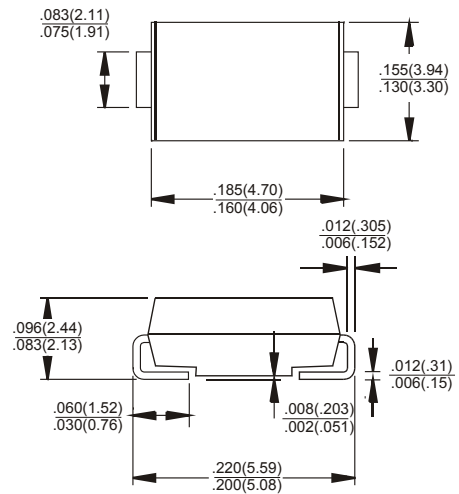
FEATURES

- High current capability
- High surge current capability
- Low reverse current
- Component in accordance to RoHS 2002/95/EC

SMB/DO-214AA Unit:inch(mm)

MECHANICAL DATA

- Cases: DO-214AA(SMB)
- 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: 0.095 grams (approximate)



Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	YSBRP8L45B	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	8	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125	A
Maximum Instantaneous Forward Voltage IF=2A @ 25°C IF=8A @ 25°C	V_F	0.37 Typ. 0.53 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5 10	mA
Typical Junction Capacitance(NOTE1)	C_j	280	pF
Typical Thermal Resistance	$R_{\theta JC}$	40	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		P8L45B · 8L45B	

NOTES:

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

DEVICE CHARACTERISTICS

YSBRP8L45B

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

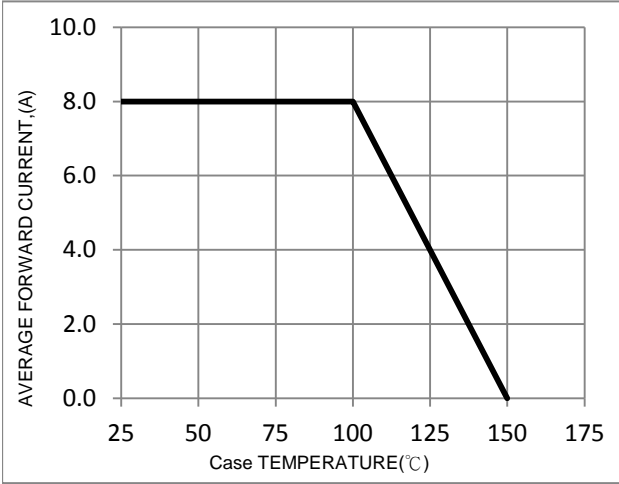


FIG. 2-Typical Forward Characteristics

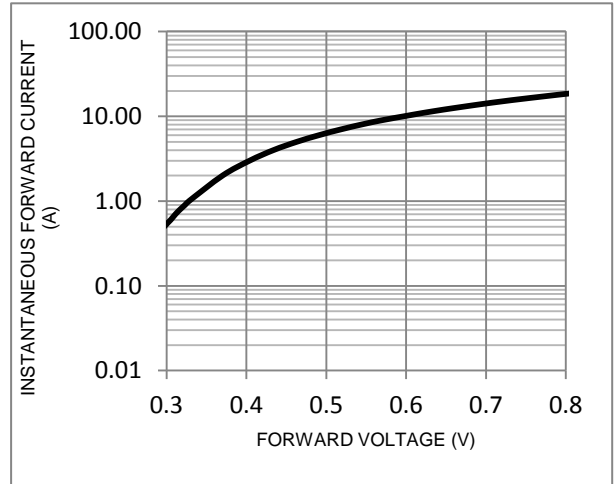


FIG. 3-Maximum Non-Repetitive Forward Surge Current

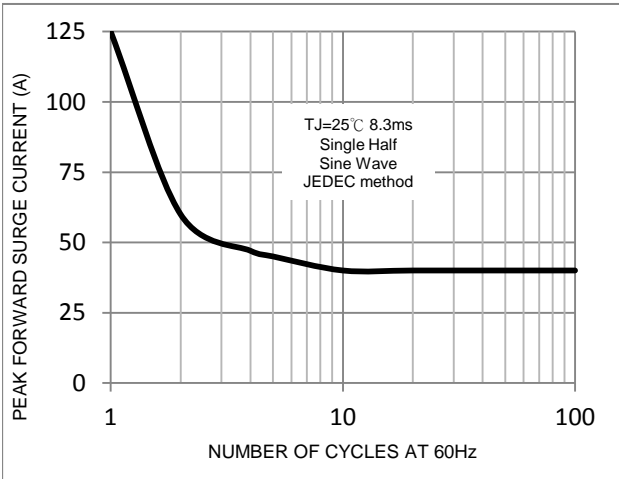


FIG. 4-Typical Reverse Characteristics

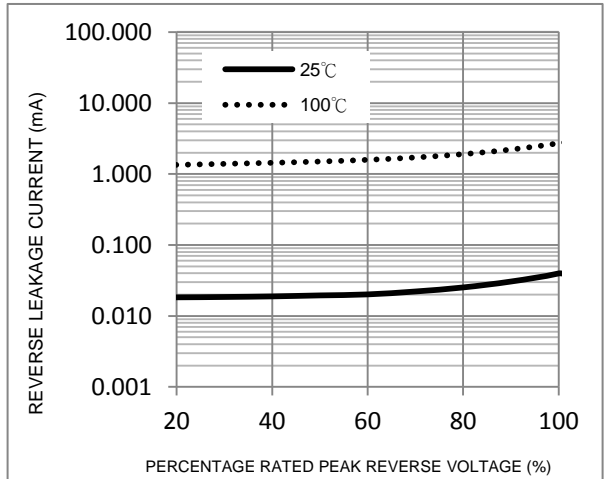


FIG. 5-Typical Junction Capacitance

