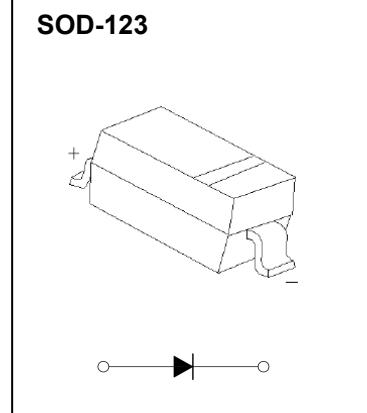


FEATURES

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

MARKING: KB5817W: SJ
KB5818W:SK
KB5819W: SL



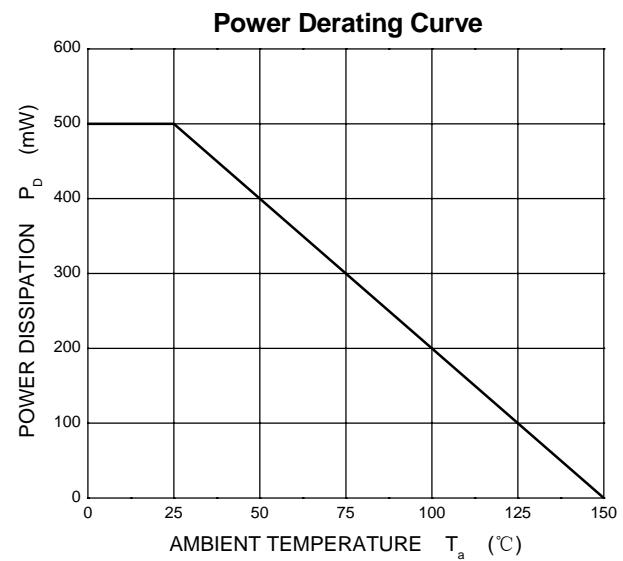
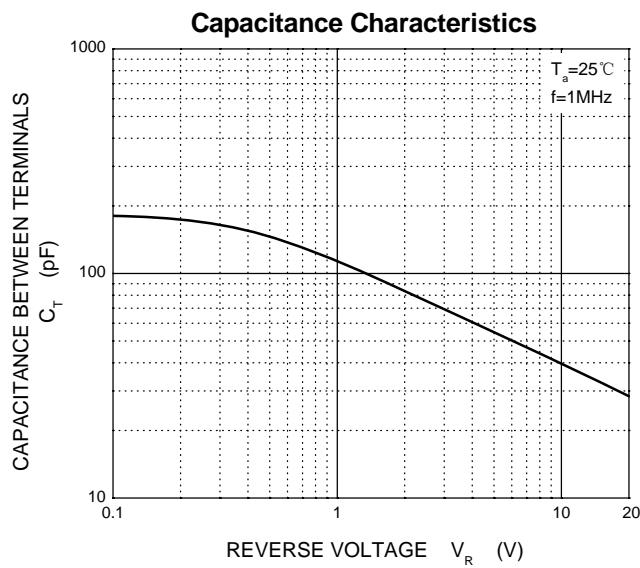
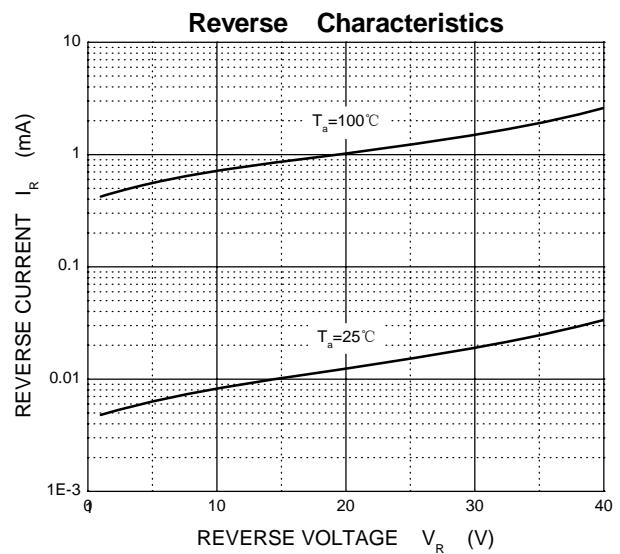
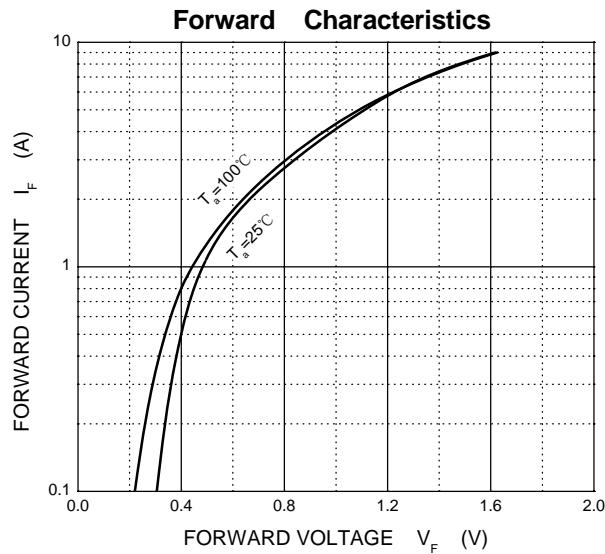
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	KB5817W	KB5818W	KB5819W	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	20	30	40	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	20	30	40	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectified Output Current	I _O		1		A
Peak Forward Surge Current @t=8.3ms	I _{FSM}		25		A
Repetitive Peak Forward Current	I _{FRM}		1.5		A
Power Dissipation	P _d		500		mW
Thermal Resistance Junction to Ambient	R _{θJA}		250		°C/W
Storage Temperature	T _{STG}		-55~+150		°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA KB5817W KB5818W KB5819W	20 30 40		V
Reverse voltage leakage current	I _R	V _R =20V V _R =30V V _R =40V KB5817W KB5818W KB5819W		1	mA
Forward voltage	V _F	KB5817W I _F =1A I _F =3A KB5818W I _F =1A I _F =3A KB5819W I _F =1A I _F =3A		0.45 0.75 0.55 0.875 0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF

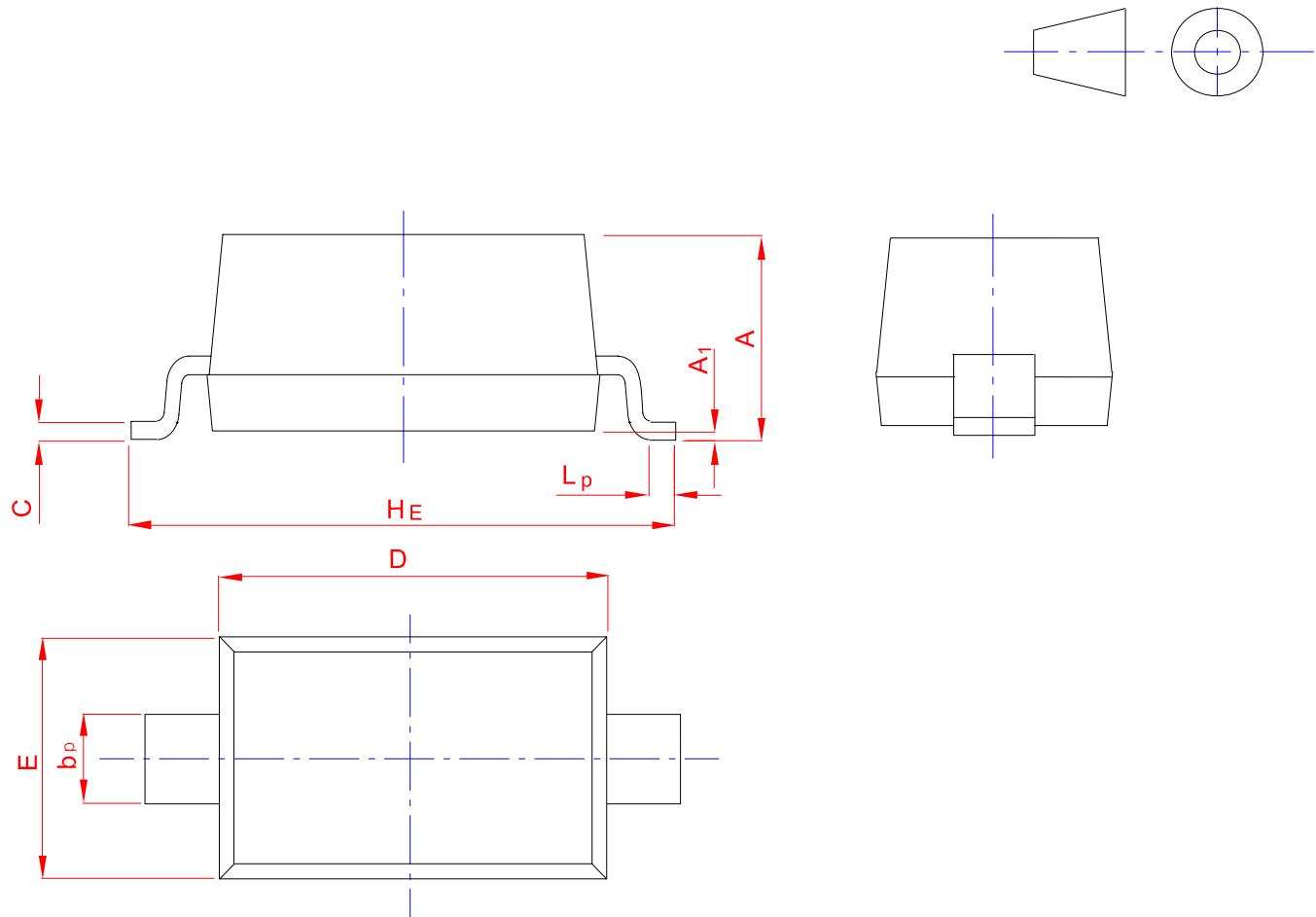
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	b _p	C	D	E	H _E	A ₁	L _p
mm	1.20 0.90	0.60 0.50	0.135 0.100	2.75 2.55	1.65 1.55	3.85 3.55	0.10 0.01	0.50 0.20