BAT43W-EVL
SURFACE MOUNT SCHOTTKY BARRIER

VENKEL LTD.

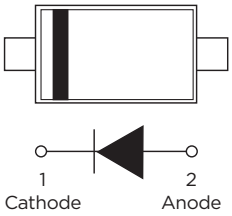
PART NUMBER	PACKAGE	VOLTAGE	CURRENT	CIRCUIT CONFIGURATION
BAT43W-□VL E = 7" Embossed T&R (3,000) U = 13" Embossed T&R (10,000)	SOD-123	30V	200mA	SINGLE

FEATURES:

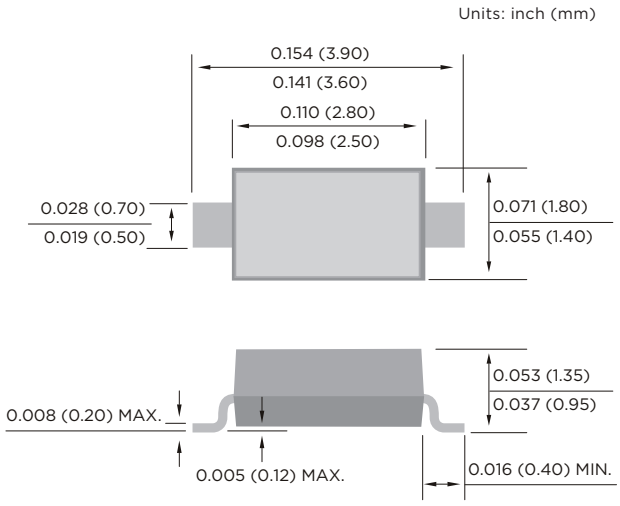
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection

MECHANICAL DATA:

- Case: SOD-123, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0004 ounces, 0.01 grams
- Marking Code: L3



SOD-123



MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

(T_A=25°C UNLESS OTHERWISE NOTED. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%)

PARAMETER		SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	30	V
Maximum RMS Voltage		V_{RMS}	21	V
Maximum DC Blocking Voltage		V_{DC}	30	V
Maximum Average Forward Current at T_A=25°C		$I_{F(AV)}$	0.2	A
Peak Forward Surge Current, 1.0ms single half sine-wave superimposed on rated load		I_{FSM}	4.0	A
Maximum Instantaneous Forward Voltage	@ I_F=2mA	V_F	0.33	V
	@ I_F=200mA		1.0	
Maximum DC Reverse Current at Rated DC BlockingVoltage		I_R	0.5	µA
Maximum Thermal Resistance		$R_{\theta JA}$	635	°C/W
Operating Junction and Storage Temperature Range		T_J T_{STG}	-55 to +125	°C

NOTES:

1. CJ at VR=1, f=1MHz
2. Mounted on FR-4 board with recommended pad layout.

ENVIRONMENTAL INFORMATION

RoHS Status	10 of 10 Compliant
REACH Status	Compliant
Halogen Status	Halogen Free
Conflict Mineral Status	Conflict Mineral Free
Moisture Sensitivity Level (MSL)	1

GRAPHS

Fig.1 Forward Current Derating Curve

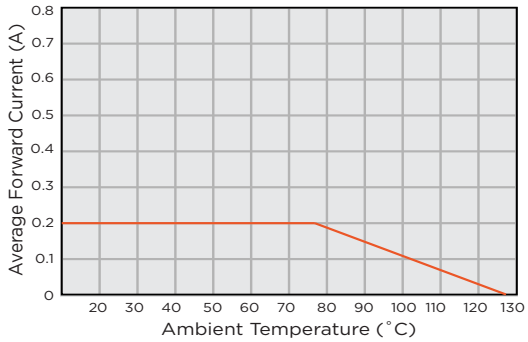


Fig.2 Typical Junction Capacitance

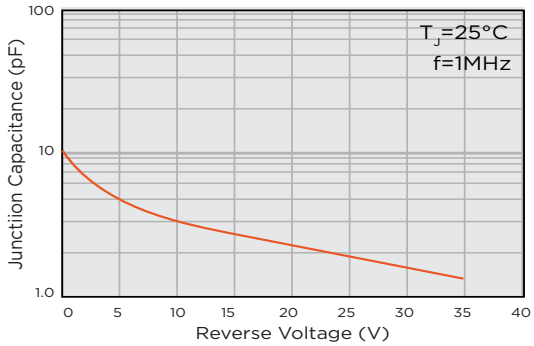


Fig.3 Typical Reverse Characteristics

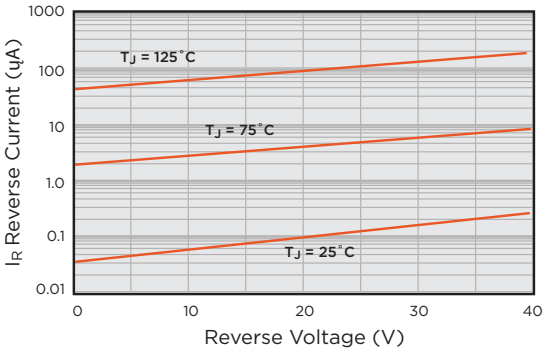


Fig.4 Typical Forward Characteristics

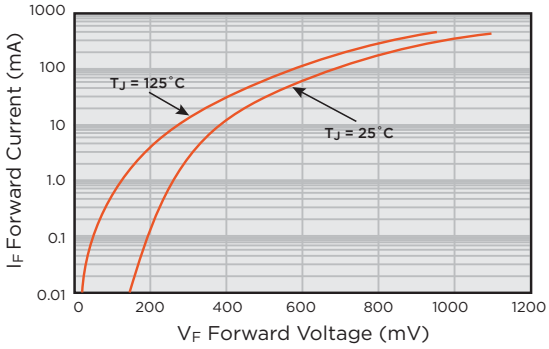
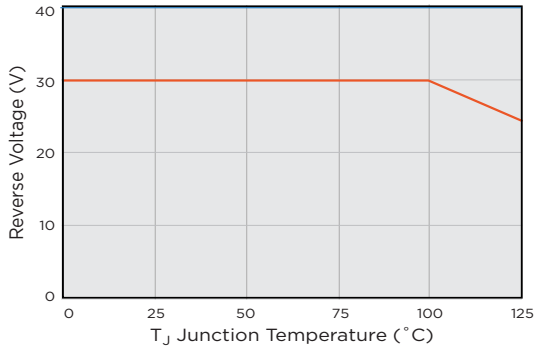
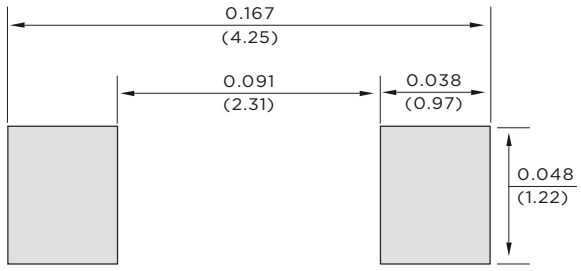


Fig.5 Operating Temperature Derating Curve



MOUNTING PAD LAYOUT

Units: inch (mm)