

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 75 - 200 Volts

POWER 350-410 mW

FEATURES

- Fast switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

MECHANICAL DATA

Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight:0.01 gram



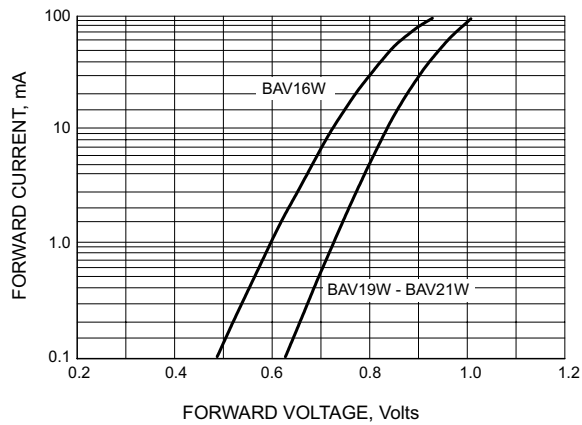
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	BAV16W	BAV19W	BAV20W	BAV21W	UNITS
Reverse Voltage	V_R	75	100	150	200	V
Peak Reverse Voltage	V_{RM}	100	120	200	250	V
Maximum RMS Voltage	V_{RMS}	35	85	140	175	V
Maximum DC Blocking Voltage	V_{DC}	75	100	150	200	V
Maximum Average Forward Current at $T_a=25^{\circ}C$	I_{AV}	250	200	200	200	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	2	2.5	2.5	2.5	A
Power Dissipation Derate Above $25^{\circ}C$	P_{TOT}	350	410	410	410	mW
Maximum Forward Voltage @ $I_F=10mA$ @ $I_F=100mA$	V_F	0.855 -	- 1.0	- 1.0	- 1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$	I_R	1	0.1	0.1	0.1	μA
Typical Junction Capacitance(Notes1)	C_J	2	1.5	1.5	1.5	pF
Maximum Reverse Recovery (Notes2)	T_{RR}	6	50	50	50	ns
Maximum Thermal Resistance	$R_{\theta JA}$	450	375	375	375	$^{\circ}C / W$
Storage Temperature Range	T_J	-55 TO +125				$^{\circ}C$

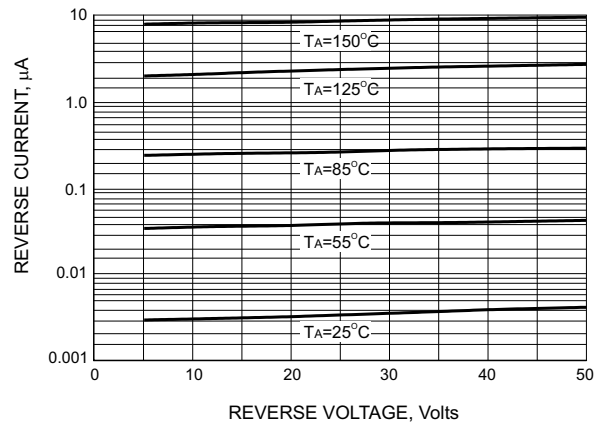
NOTE:

1. C_J at $V_R=0$, $f=1MHz$

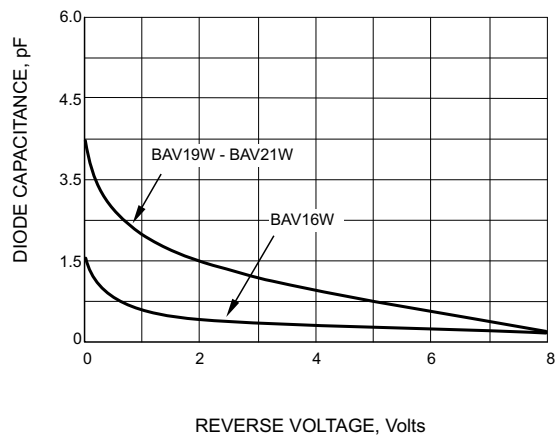
2.From $I_F=10mA$ to $I_R=1mA$, $V_R=6Volts$, $R_L=100\Omega$



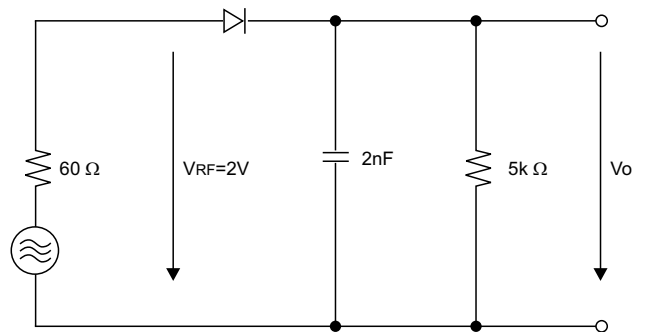
FORWARD VOLTAGE



LEAKAGE CURRENT

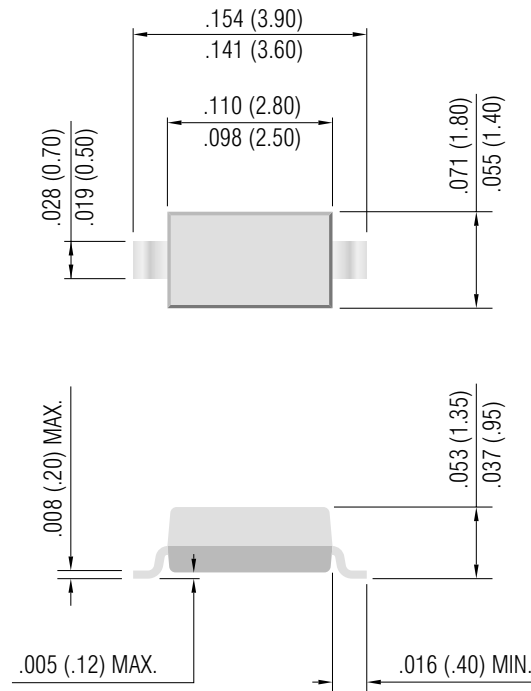


TYPICAL CAPATCANCE



RECTIFICATION EFFCENCY MEASUREMENT CIRCUIT

SOD-123



Dimensions in inches and (millimeters)