Elektronische Bauelemente

BAV19TC/BAV20TC/BAV21TC

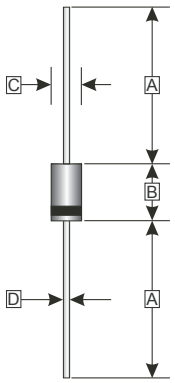
Surface Mount Small Signal Switching Diode

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DO-35

FEATURE

- DO-35 Package (JEDEC)
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All external surfaces are corrosion resistant and leads are readily solderable
- RoHS Compliant
- Solder hot dip Tin (Sn) lead finish
- Cathode indicated by polarity band



ELECTRICAL SYMBOL



REF.	Millimeter	
	Min.	Max.
A	25.4	38.1
B	3.05	5.08
C	1.53	2.28
D	0.46	0.55

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Parameter		Symbol	Ratings	Unit
Maximum Repetitive Reverse Voltage		V_{RRM}	250	V
Average Rectified Forward Current		$I_{F(AV)}$	200	mA
Non-repetitive Peak	PW = 1.0s	I_{FSM}	1.0	A
Forward Current	PW = 1.0μs		4.0	
Power Dissipation		P_D	500	mW
Thermal Resistance Junction to Ambient		$R_{\theta JA}$	300	°C / W
Operating Junction, Storage Temperature		T_J, T_{STG}	175, -65 ~ +200	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

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

Parameters		Symbol	Min.	Max.	Unit	Test Conditions
Breakdown Voltage	BAV19TC	B_V	120	-	V	I_R=100μA
	BAV20TC		200	-		
	BAV21TC		250	-		
Reverse Leakage Current	BAV19TC	I_R	-	100	nA	V_R = 100V
	BAV20TC		-	100		V_R = 150V
	BAV21TC		-	100		V_R = 200V
Forward Voltage		V_F	-	1.0	V	I_F= 100mA
			-	1.25		I_F= 200mA
Reverse Recovery Time		T_{RR}	-	50	nS	I_F = I_R = 30 mA, I_{RR}=3mA, R_L=100Ω
Capacitance		C	-	5.0	pF	V_R = 0V, f=1MHz