Elektronische Bauelemente

BAT54Z

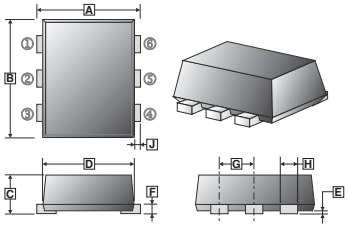
VOLTAGE 30 V, 200 mA
Small Signal Schottky Diode

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

SOT-563

FEATURES

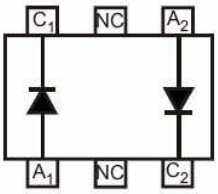
Surface mount schottky barrier diode arrays.



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	F	0.09	0.16
B	1.50	1.70	G	0.45	0.55
C	0.525	0.60	H	0.17	0.27
D	1.10	1.30	J	0.10	0.30
E	-	0.05			

MARKING

KAV



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOL	VALUE	UNIT
Peak Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}	30	V
DC Blocking Voltage	V_R	30	V
Average Rectified Output Current	I_O	200	mA
Power Dissipation	P_D	150	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	℃/W
Storage Temperature	T_{STG}	-65~125	℃

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITION
Reverse Breakdown Voltage	$V_{(BR)R}$	30		V	I_R= 100μA
Reverse Voltage Leakage Current	I_R		2	μA	V_R=25V
Forward Voltage	V_F		320	mV	I_F=1mA
			400	mV	I_F=10mA
			500	mV	I_F=30mA
			1000	mV	I_F=100mA
Total Capacitance	C_T		10	pF	V_R=1V, f=1MHz
Reverse Recovery Time	t_{rr}		5	nS	I_F=10mA,I_R=10mA~1mA, R_L=100Ω

Elektronische Bauelemente

BAT54Z

VOLTAGE 30 V, 200 mA
Small Signal Schottky Diode

RATINGS AND CHARACTERISTIC CURVES

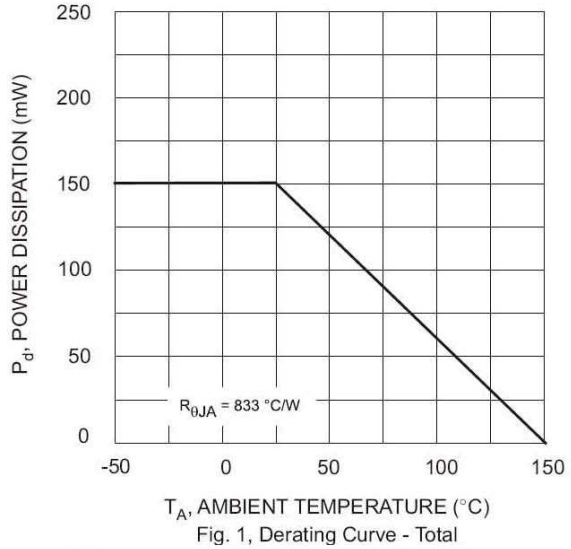


Fig. 1, Derating Curve - Total

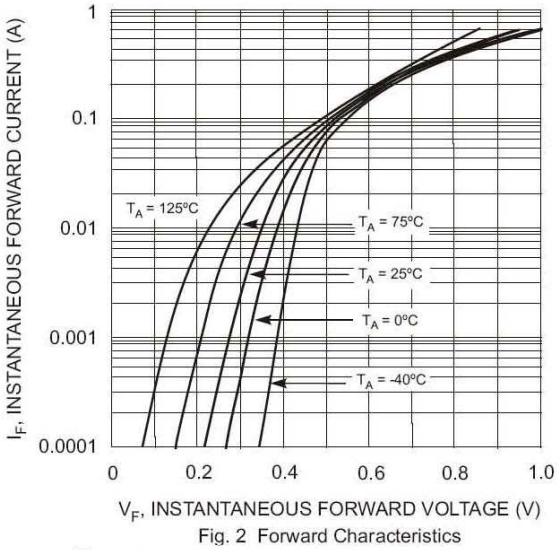


Fig. 2 Forward Characteristics

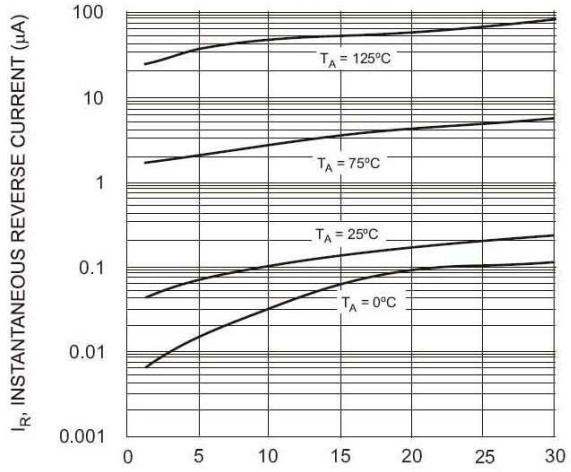


Fig. 3 Typical Reverse Characteristics

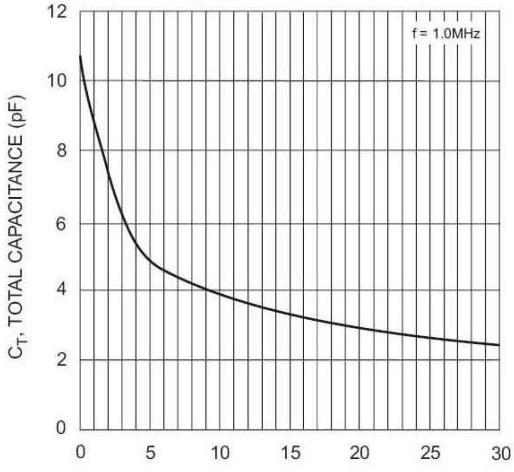


Fig. 4 Typical Capacitance vs. Reverse Voltage