Elektronische Bauelemente

BAT54DW

0.2A, 30V

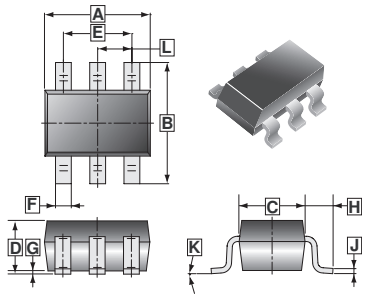
Surface Mount Schottky Barrier Diode

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

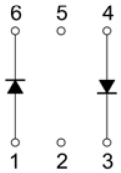
FEATURES

- Low forward voltage drop
- Fast switching
- PN junction guard ring for transient and ESD protection

SOT-363



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	8°	
E	1.10	1.50	L	0.650 TYP.	
F	0.10	0.35			



MARKING

KLD

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-363	3K	7 inch

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

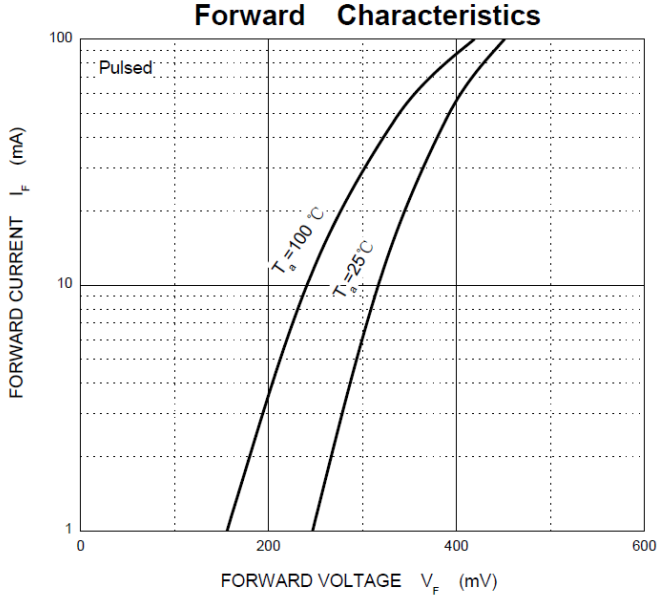
Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Peak Working Reverse Voltage	V_{RWM}	30	V
DC Blocking Voltage	V_R	30	V
Continuous Forward Current	I_F	200	mA
Repetitive Peak Forward Current@ tp＜8.3ms, D＜2%	I_{FRM}	300	mA
Non-repetitive Peak Forward Current@ t=8.3ms	I_{FSM}	600	mA
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction and Storage temperature	T_J, T_{STG}	125, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

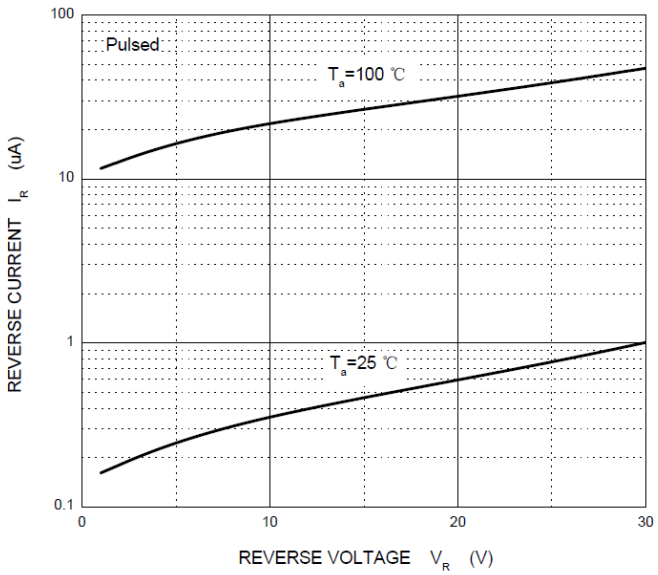
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)}$	30	-	-	V	I_R=100μA
Forward Voltage	V_F	-	-	0.32	V	I_F=1mA
		-	-	0.4		I_F=10mA
		-	-	0.5		I_F=30mA
		-	-	1		I_F=100mA
Reverse Current	I_R	-	-	2	μA	V_R=25V
Total Capacitance	C_T	-	10	-	pF	V_R=0, f=1MHz
Reverse Recovery Time	T_{RR}	-	-	5	ns	I_F=I_R=10mA, I_{RR}=0.1×I_R, R_L=100Ω

CHARACTERISTICS CURVE

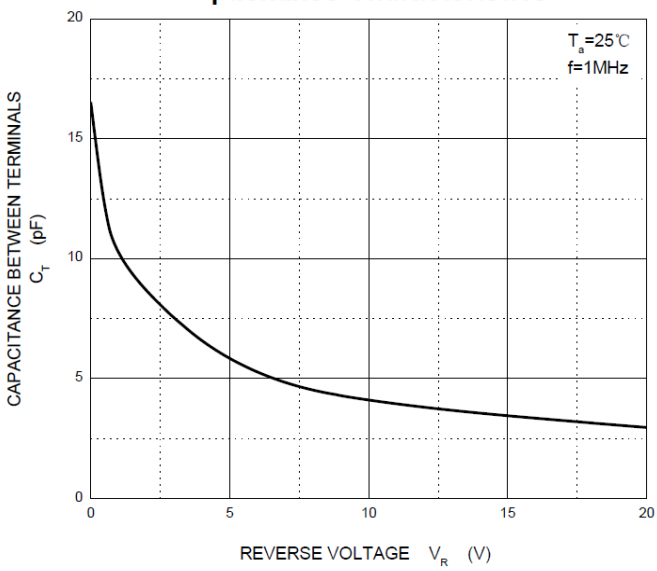
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

