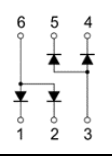
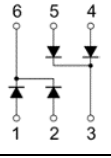
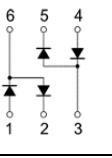
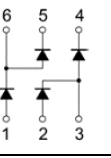
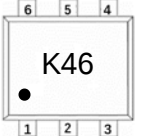
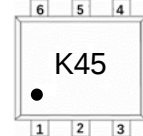
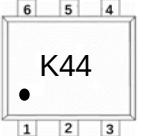
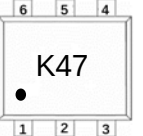
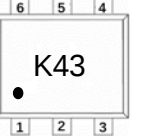


Features

- Low Forward voltage drop
- Fast switching



SOT-363 top view

BAS40DW-06	BAS40DW-05	BAS40DW-04	BAS40BRW	BAS40TW
				
Marking:K46	Marking:K45	Marking:K44	Marking:K47	Marking:K43
				



Halogen-Free

Maximum Ratings($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V_R	DC Blocking Voltage	40	V
I_O	Average Rectified Output Current	200	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	$^\circ\text{C}/\text{W}$
T_J	Operating and Storage Temperature Range	-40~ +125	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

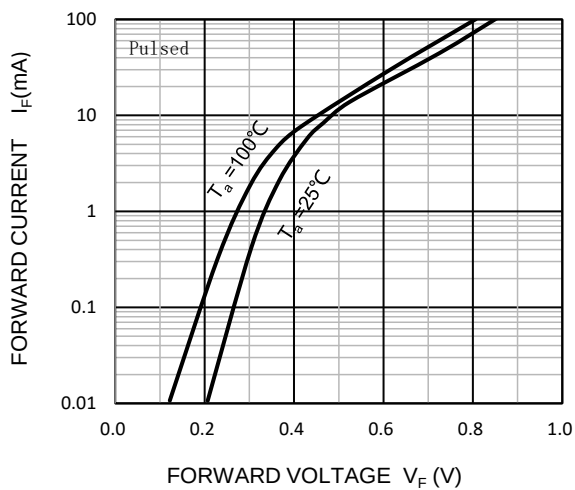
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=10\mu\text{A}$	40	--	--	V
I_R	Reverse current	$V_R=30\text{V}$	--	--	200	nA
V_F	Forward voltage	$I_F=1\text{mA}$	--	--	380	mV
		$I_F=40\text{mA}$	--	--	1000	mV
C_T	Capacitance between terminals	$V_R=0, f=1\text{MHz}$	--	--	5	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10\text{mA}, I_{rr}=0.1I_R, R_L=100\Omega$	--	--	5	ns

Ordering Information (Example)

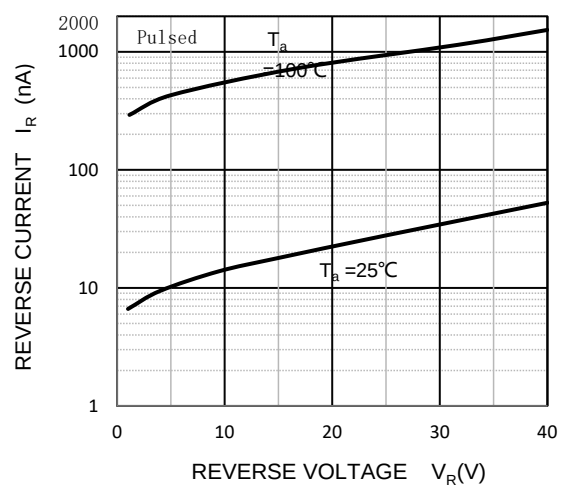
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAS40DW-06	SOT-363	K46	3,000	45,000	180,000	7"reel
BAS40DW-05	SOT-363	K45	3,000	45,000	180,000	7"reel
BAS40DW-04	SOT-363	K44	3,000	45,000	180,000	7"reel
BAS40BRW	SOT-363	K47	3,000	45,000	180,000	7"reel
BAS40TW	SOT-363	K43	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

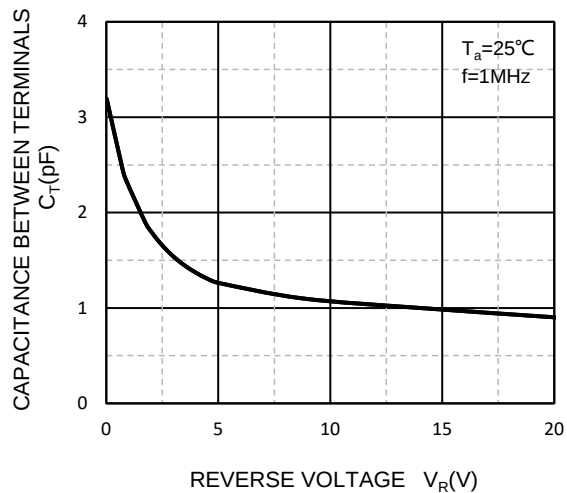
Forward Characteristics



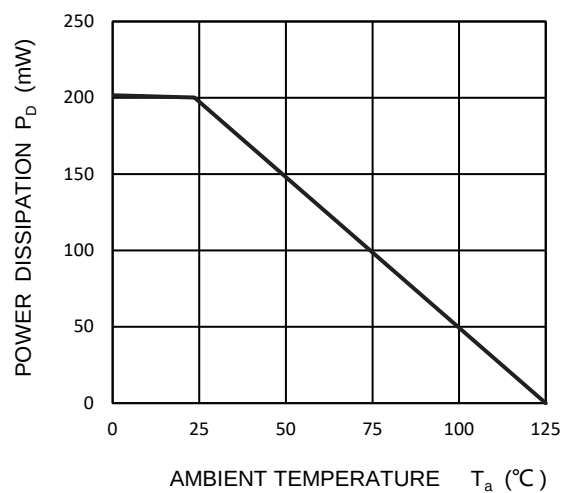
Reverse Characteristics

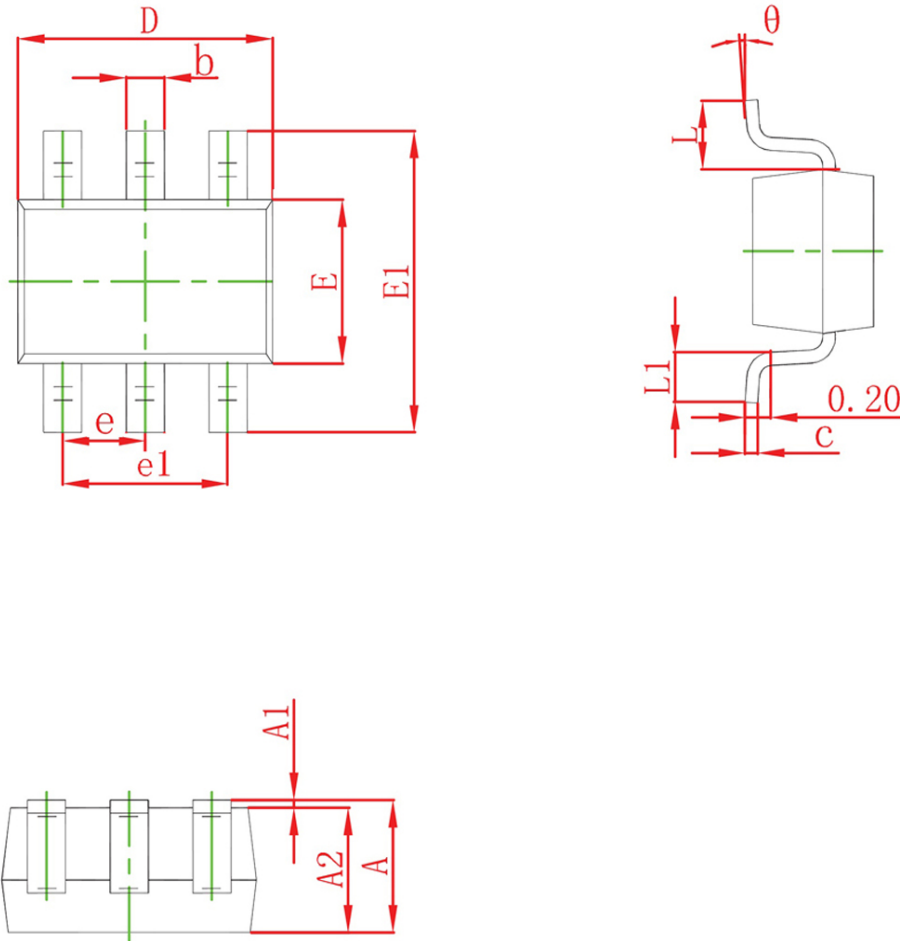


Capacitance Characteristics



Power Derating Curve



SOT-363 Package information


Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L	0.525REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°