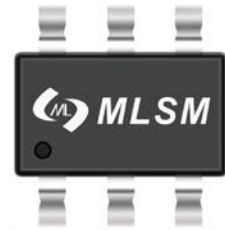
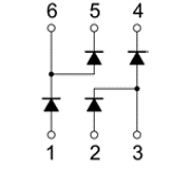
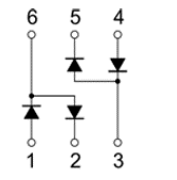
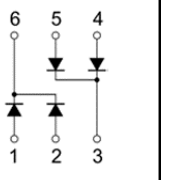
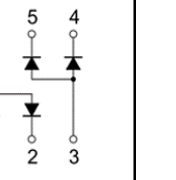
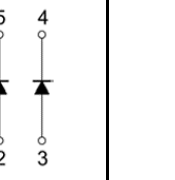
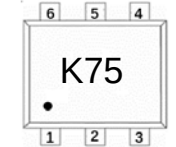
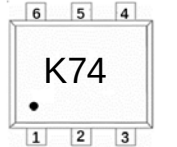
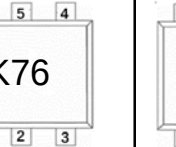
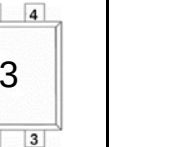


Features

- Low Forward Voltage Drop
- Fast Switching
- Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Available in Lead Free Version



SOT-363 top view

BAS70BRW	BAS70DW-04	BAS70DW-05	BAS70DW-06	BAS70TW
				
Marking:K75	Marking:K74	Marking:K71	Marking:K76	Marking:K73
				



Halogen-Free

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

Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	70	V
V_{RRM}	Working Peak Reverse Voltage		
V_{RWM}	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	49	V
I_o	Average Rectified Output Current	70	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	100	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	$^{\circ}\text{C}/\text{W}$
T_J	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
T_{STG}	Operating and Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

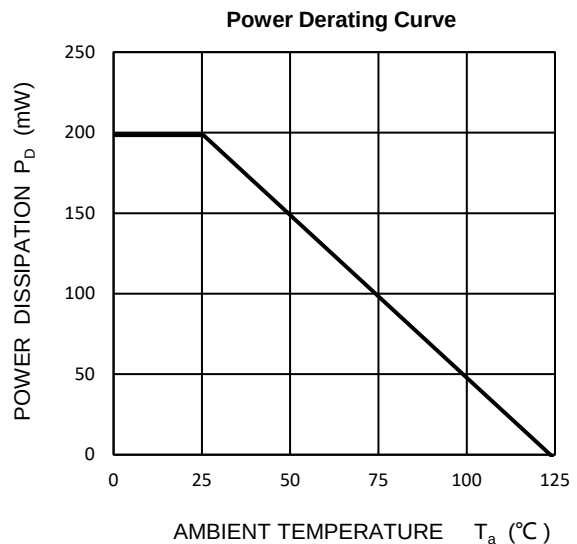
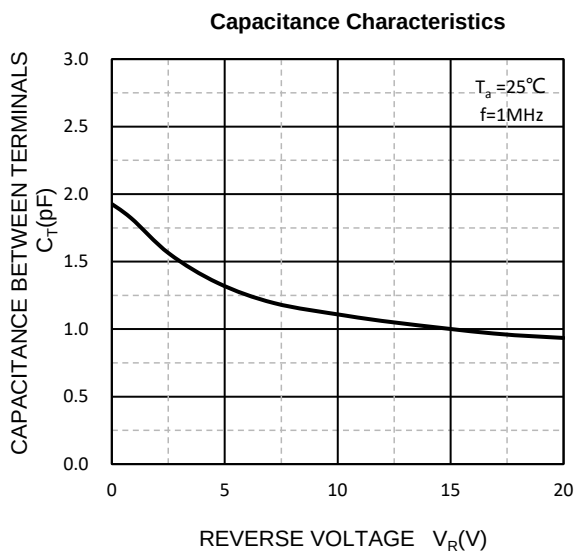
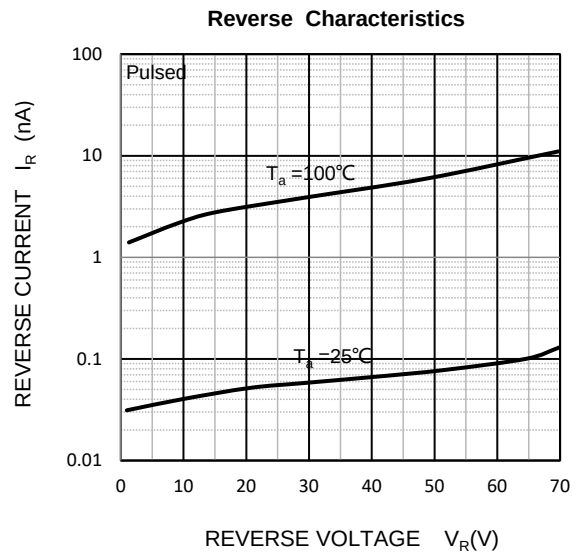
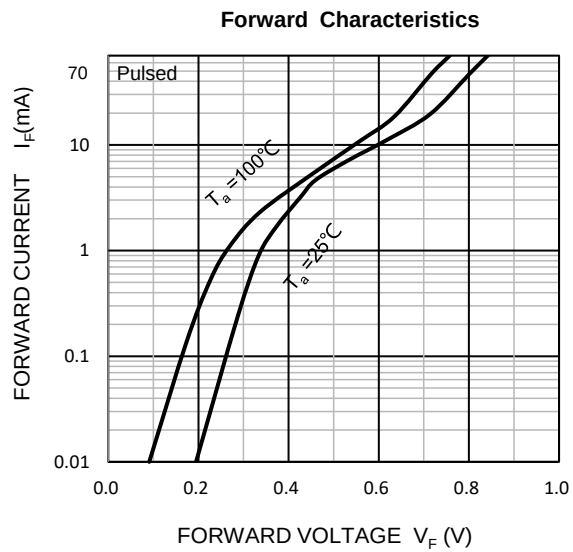
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=10\mu\text{A}$	70	--	--	V
I_R	Reverse current	$V_R=50\text{V}$	--	--	0.1	μA
V_F	Forward voltage	$I_F=1\text{mA}$	--	--	0.41	V
		$I_F=15\text{mA}$	--	--	1	
C_T	Capacitance between terminals	$V_R=0\text{V}, f=1\text{MHz}$	--	--	2	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10\text{mA}$ to $I_R=1\text{mA}$, $t_{rr}=0.1 \times I_R, R_L=100\Omega$	--	--	5	ns

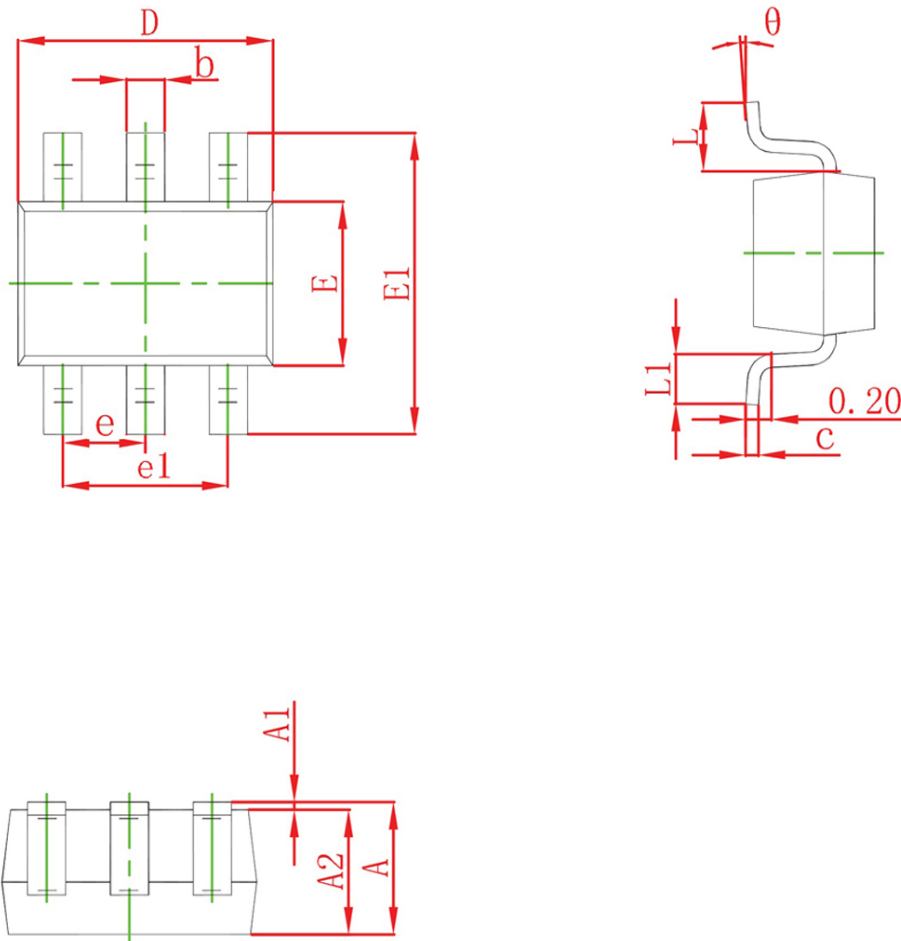
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAS70BRW	SOT-363	K75	3,000	45,000	180,000	7"reel
BAS70DW-04	SOT-363	K74	3,000	45,000	180,000	7"reel
BAS70DW-05	SOT-363	K71	3,000	45,000	180,000	7"reel
BAS70DW-06	SOT-363	K76	3,000	45,000	180,000	7"reel
BAS70TW	SOT-363	K73	3,000	45,000	180,000	7"reel

Typical Operating Characteristics



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°