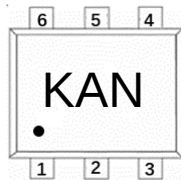


Features

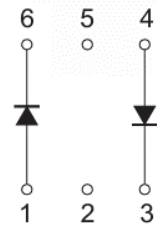
- Low Forward Voltage Drop
- Fast Switching



Marking and pin assignment



SOT-563 top view



Schematic diagram



Halogen-Free

Maximum Ratings @Ta=25°C

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V_R	Peak Repetitive Peak Reverse Voltage	40	V
I_O	Average Rectified Output Current	200	mA
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	667	°C/W
T_J	Operating Junction Temperature Range	-40~ +125	°C
T_{STG}	Operating and Storage Temperature Range	-55~ +150	°C

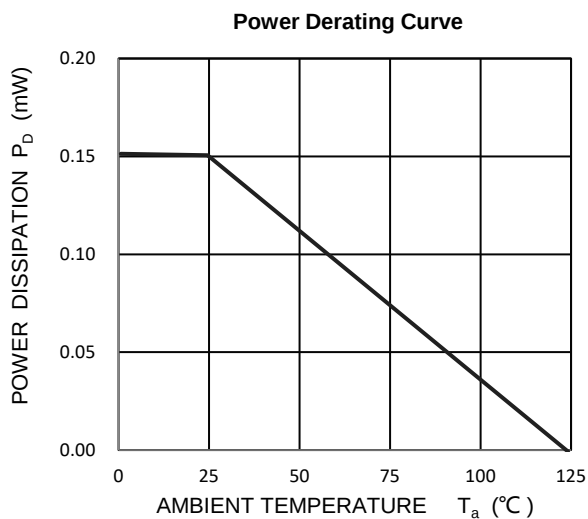
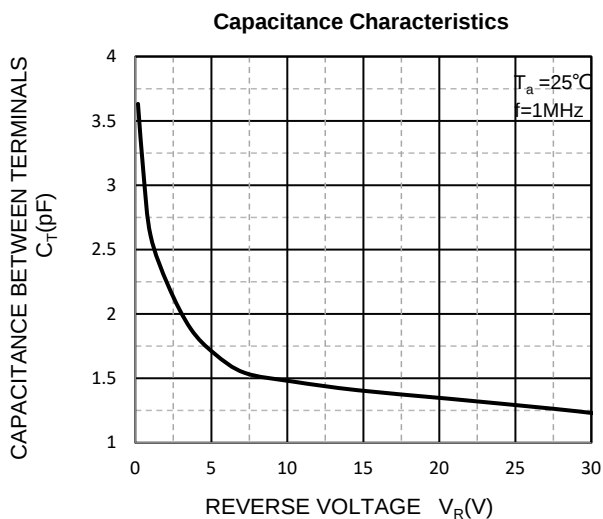
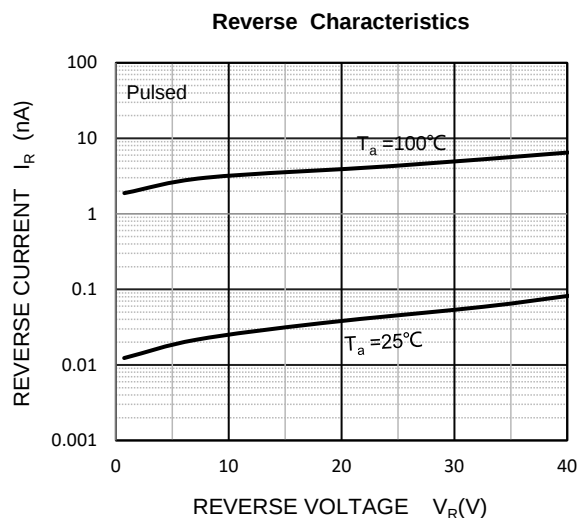
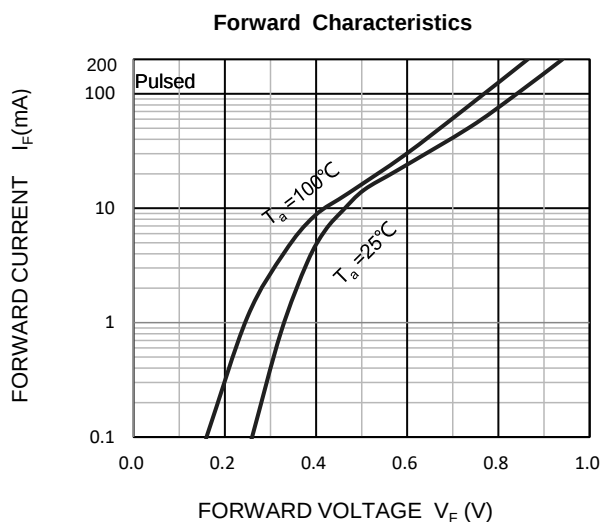
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

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

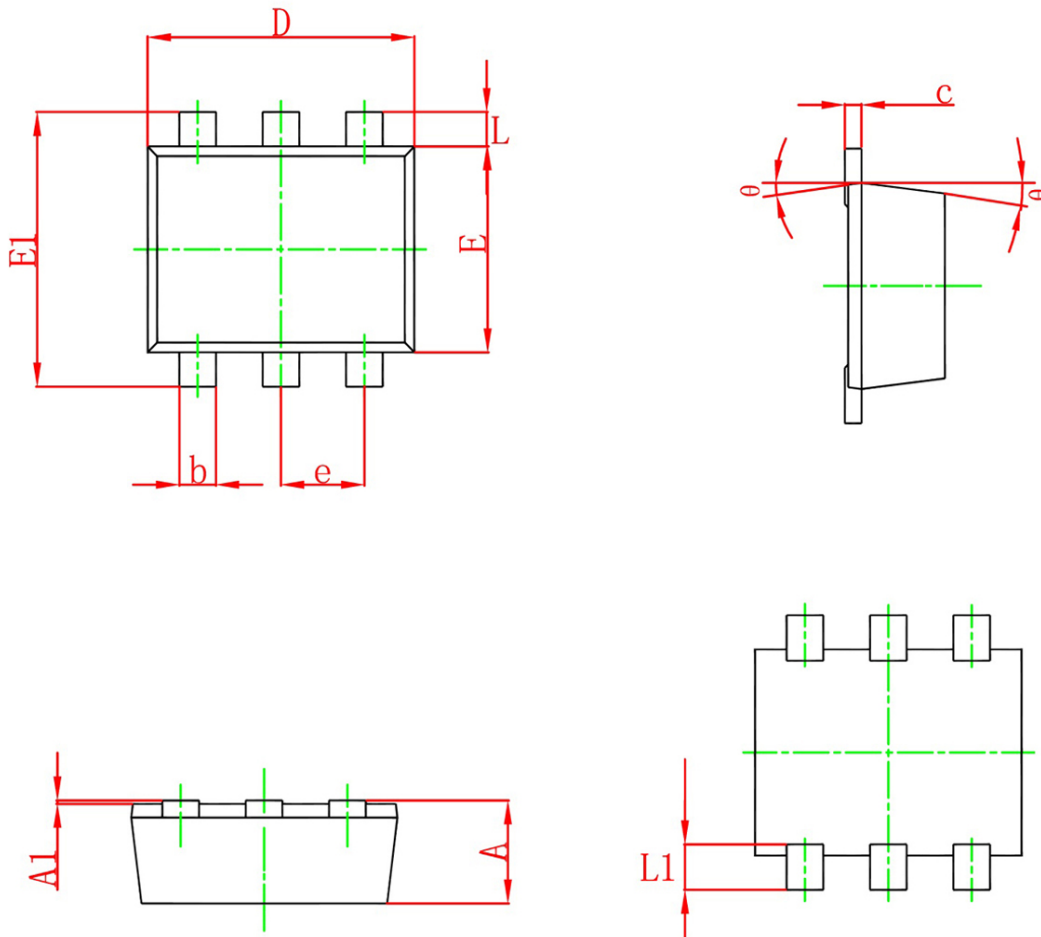
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAS40V	SOT-563	KAN	3,000	45,000	180,000	7"reel

Typical Operating Characteristics



SOT-563 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.500	0.600	0.020	0.024
A1	0.000	0.050	0.000	0.002
e	0.450	0.550	0.018	0.022
c	0.090	0.180	0.004	0.007
D	1.500	1.700	0.059	0.067
b	0.170	0.270	0.007	0.011
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
L	0.100	0.300	0.004	0.012
L1	0.200	0.400	0.008	0.016
θ	10° REF.		10° REF.	