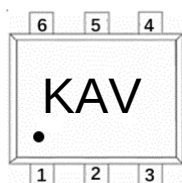


Features

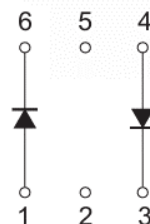
- Surface mount schottky barrier diode arrays



Marking and pin assignment



SOT-563 top view



Schematic diagram



Halogen-Free

Maximum Ratings @Ta=25°C

Symbol	Parameter	Value	Unit
V_R	Peak Repetitive Peak Reverse Voltage	30	V
V_{RRM}	Working Peak Reverse Voltage		
V_{RWM}	DC Blocking Voltage		
I_O	Average Rectified Output Current	200	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	600	mA
I_{FRM}	Repetitive Peak Forward Current @ $t \leq 1s, \delta \leq 0.5$	300	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)

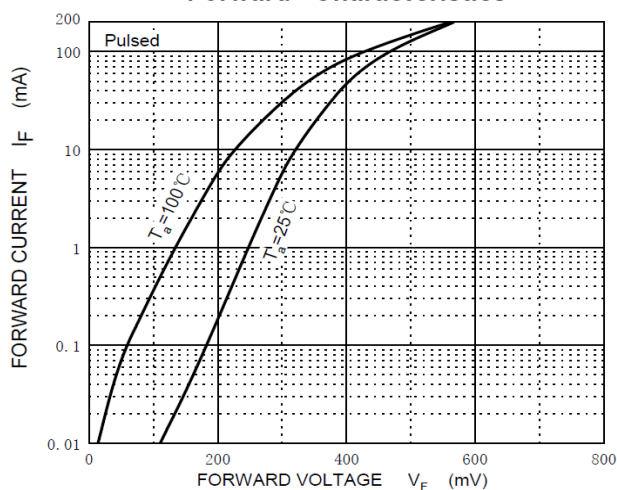
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=100\mu A$	30	--	--	V
I_R	Reverse current	$V_R=25V$	--	--	2	μA
V_F	Forward voltage	$I_F=1mA$	--	--	320	mV
		$I_F=10mA$	--	--	400	
		$I_F=30mA$	--	--	500	
		$I_F=100mA$	--	--	1000	
C_T	Capacitance between terminals	$V_R=1V, f=1MHz$	--	--	10	pF
t_{rr}	Reverse recovery time	$I_F=10mA, I_R=10mA \sim 1mA, R_L=100\Omega$	--	--	5	ns

Ordering Information (Example)

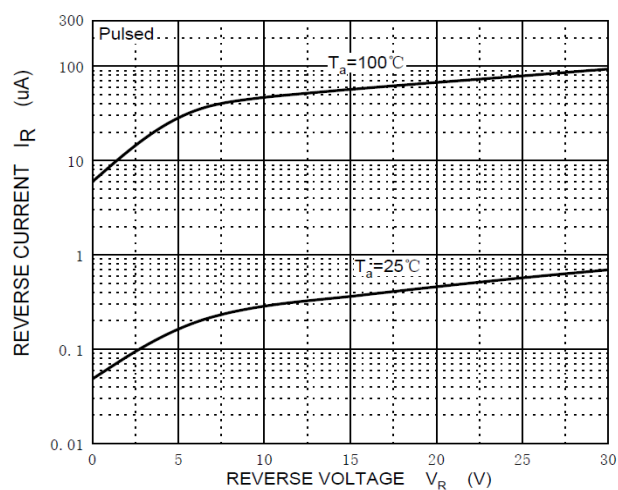
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAT54V	SOT-563	KAV	3,000	45,000	180,000	7"reel

Typical Operating Characteristics

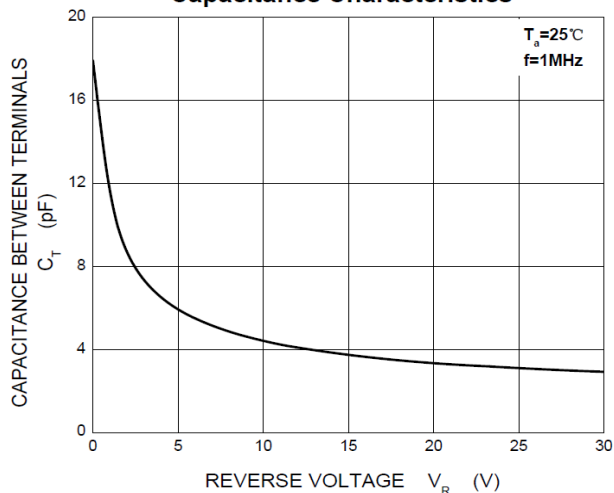
Forward Characteristics



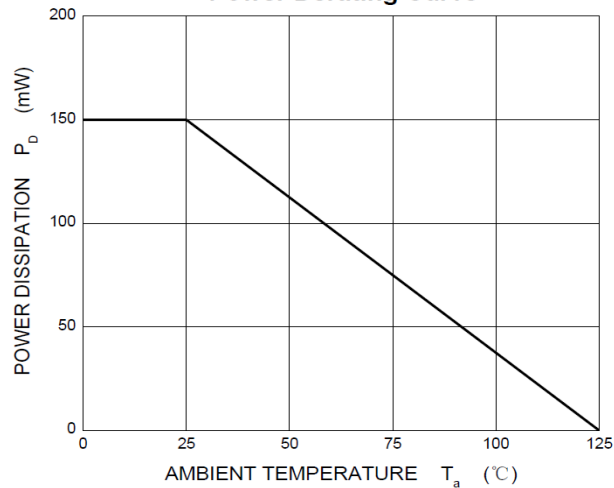
Reverse Characteristics



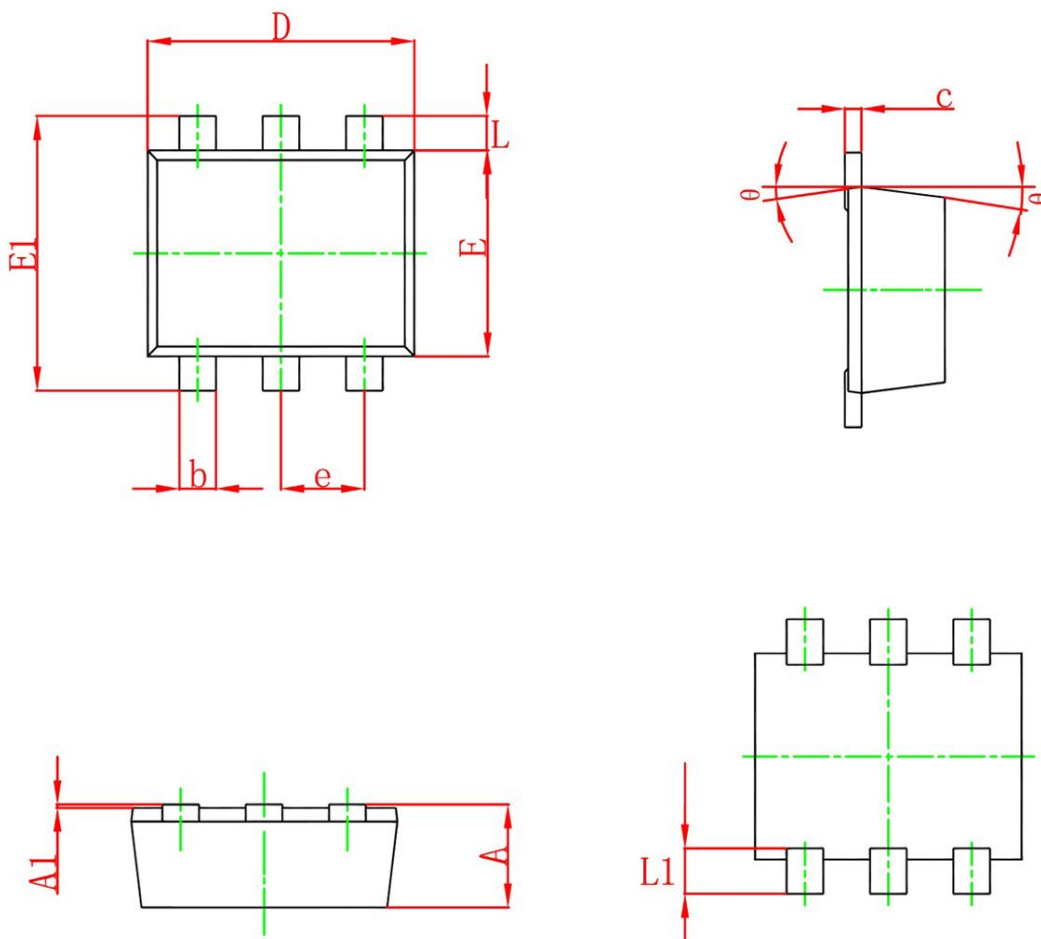
Capacitance Characteristics



Power Derating Curve



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.	