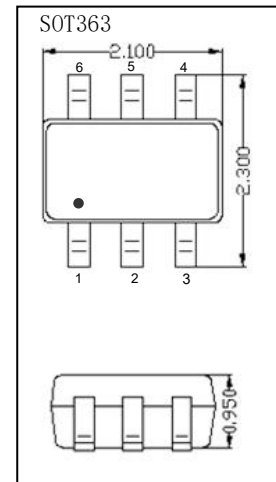
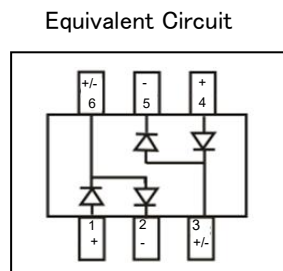


DATA SHEET

BAS40DW-04

- ◇ Low Forward Voltage Schottky Rectifier
- ◇ SOT363 Micro SMD package
- ◇ RoHS Compliant / Green EMC
- ◇ Matte Tin (Sn) Lead Finish

Device Marking Code	
BAS40DW-04	K44



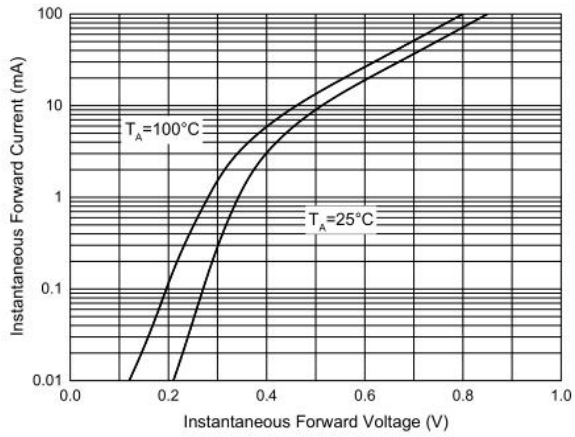
Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
V_R	DC Blocking Voltage	40	V
I_{FM}	Forward Continuous Current	200	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	°C/W
T_j	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+125	°C

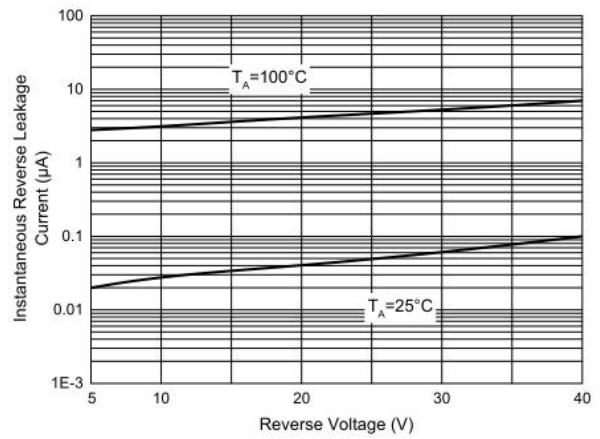
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test conditions	Min	Max	Unit
V_{BR}	Reverse Voltage	$I_R=10\mu A$	40		V
I_R	Reverse Current	$V_R=30V$		0.2	μA
V_F	Forward Voltage	$I_F=1mA$		0.38	V
		$I_F=40mA$		1.00	V
C_T	Total Capacitance	$V_R=0V, f=1.0MHz$		5.0	pF
t_{rr}	Reverse Recovery Time	$I_F=I_R=10mA,$ $I_{RR}=1mA, R_L=100\Omega$		5.0	nS

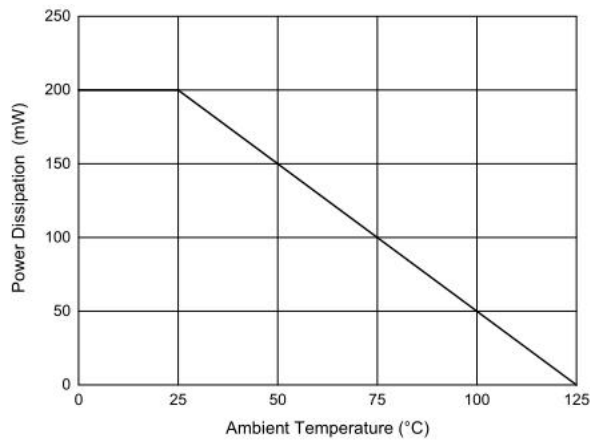
Typical Characteristics



Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics



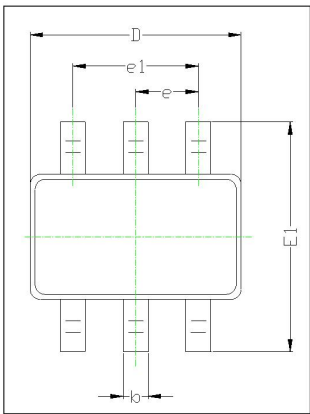
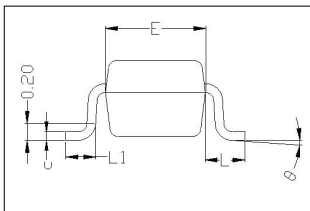
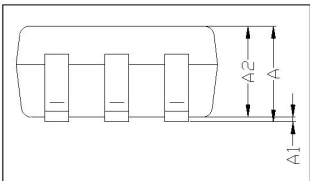
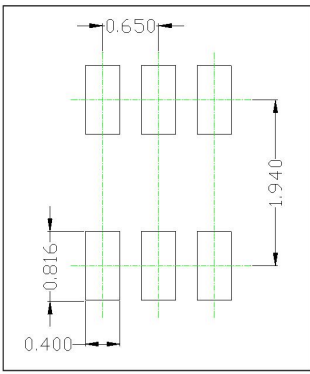
Power Derating Curve

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAS40DW-04	SOT363	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions

Package outline : SOT363

SYMBOL	DIMENSIONS IN MILLIMETER	
	MIN	MAX
A	0.900	1.000
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.100	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.400
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

Notice:

- Lead plating: Pb free solder
- Lead thickness includes solder plating
- Lead frame: CAC-5
- Other Tolerance: ± 0.05
- Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
- Unit: mm

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