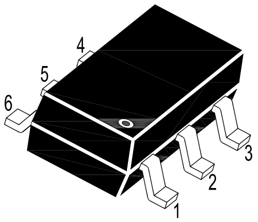
BAS40DW / SDW / CDW / ADW / BRDW

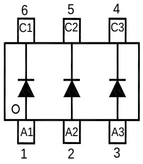
Surface Mount Schottky Barrier Diode

Features

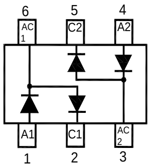
- Low forward voltage
- Fast switching



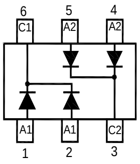
BAS40DW



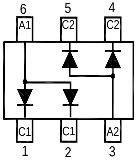
BAS40SDW



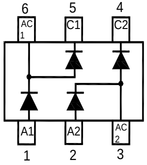
BAS40CDW



BAS40ADW



BAS40BRDW



Marking Code
BAS40DW:4A BAS40SDW:4B
BAS40CDW:4C BAS40ADW:4D
BAS40BRDW:4E
SOT-363 Plastic package

Absolute Maximum Ratings (T_a = 25℃)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Reverse Stand-Off Voltage	V_{RWM}	40	V
Reverse Voltage	V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current [1]	I_{FM}	200	mA
Peak Forward Surge Current (at t < 1 s)	I_{FSM}	600	mA
Power Dissipation [1]	P_D	200	mW
Thermal Resistance from Junction Ambient [1]	$R_{\theta JA}$	625	℃/W
Junction Temperature	T_J	- 55 to + 125	℃
Storage Temperature Range	T_{stg}	- 65 to + 125	℃

[1] Part mounted on FR-4 board with recommended pad layout .

Characteristics at T_a = 25℃

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 1 mA at I_F = 40 mA	V_F	- -	380 1000	mV
Reverse Breakdown Voltage at I_R = 10 μA	$V_{(BR)R}$	40	-	V
Reverse Current at V_R = 30 V	I_R	-	200	nA
Total Capacitance at V_R = 0 V, f = 1 MHz	C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R$ = 10 mA, $I_{rr} = 0.1 \times I_R$, R_L = 100 Ω	t_{rr}	-	5	ns

Electrical Characteristics Curves

Fig 1. Power Derating Curve

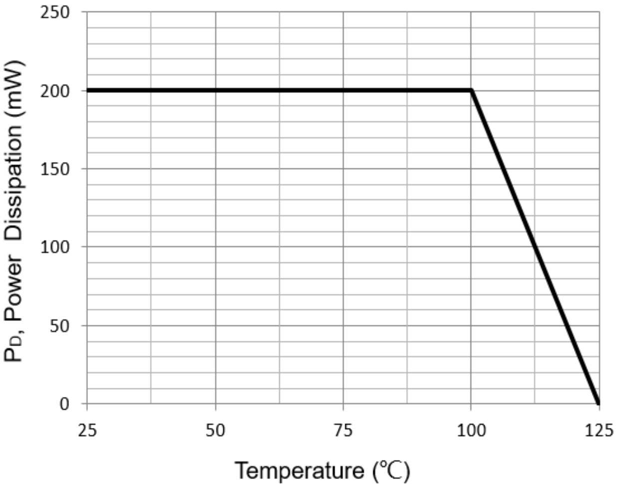


Fig 2. Junction Capacitance vs. Reverse Voltage

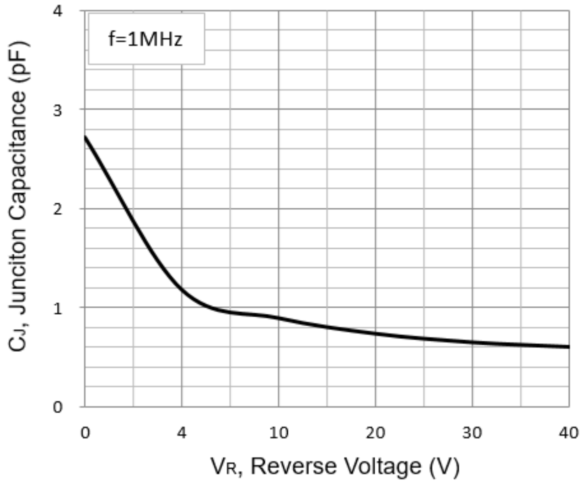


Fig 3. Reverse Characteristics

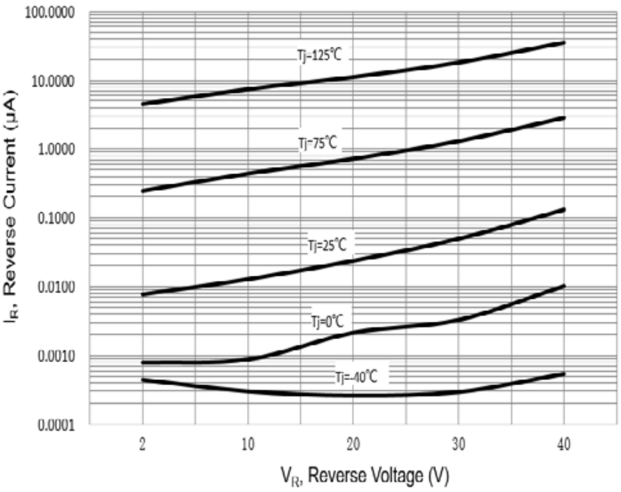
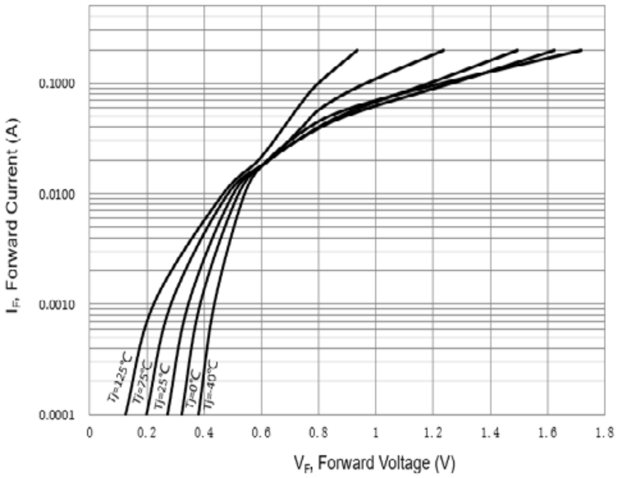


Fig 4. Forward Characteristics



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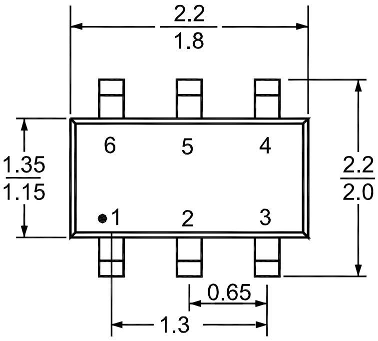
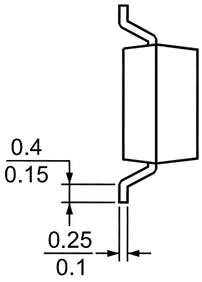
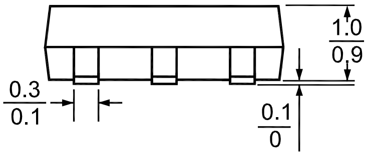
Package Outline Dimensions (Units: mm)

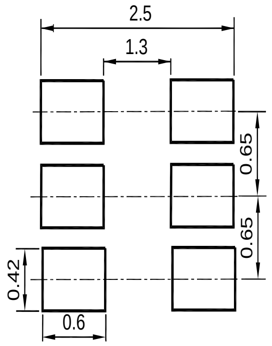
SOT-363







Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-363	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" ** " = Part No.
"YM" = Date Code Marking
"Y" = Year
"M" = Month
Font type: Arial