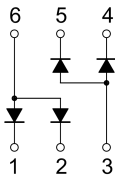
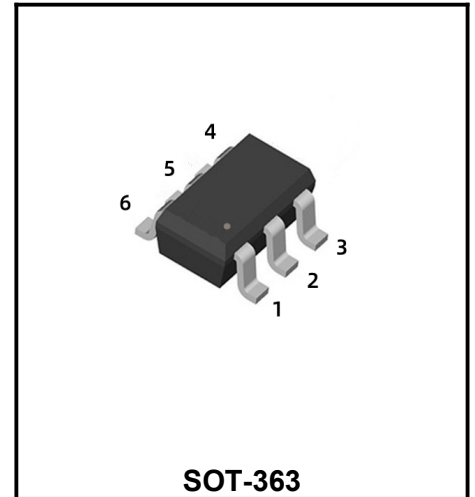


**Plastic-Encapsulate Diodes**

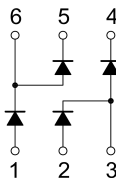
SCHOTTKY BARRIER DIODE ARRAYS

**FEATURES**

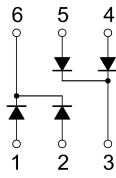
- ◆ Low Forward Voltage Drop
- ◆ Fast Switching
- ◆ Small Surface Mount Package
- ◆ PN Junction Guard Ring for Transient and ESD Protection
- ◆ Available in Lead Free Version



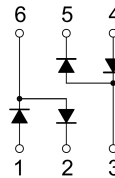
**BAT54ADW**



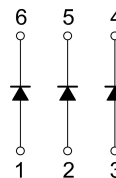
**BAT54BRW**



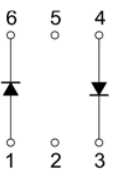
**BAT54CDW**



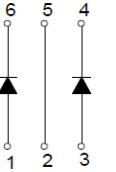
**BAT54SDW**



**BAT54TW**



**BAT54DW**



**BAT54JW**

**MARKING:**

BAT54ADW	BAT54BRW	BAT54CDW	BAT54SDW	BAT54TW

BAT54DW	BAT54JW

Solid dot = Green molding compound device, if none, the normal device.

**ELECTRICAL CHARACTERISTICS**
**MAXIMUM RATINGS ( Ta=25°C unless otherwise noted )**

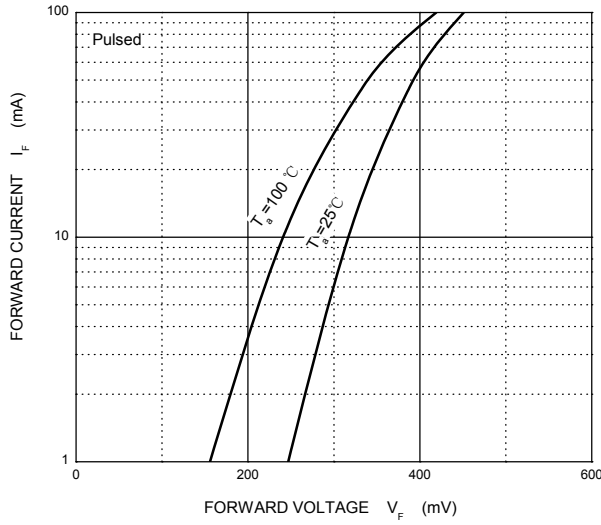
Symbol	Parameter	Value	Unit
$V_{RRM}$	Repetitive Peak Reverse Voltage	30	V
$V_{RWM}$	Peak Working Reverse Voltage		
$V_R$	DC Blocking Voltage		
$I_O$	Forward Continuous Current	200	mA
$I_{FRM}$	Repetitive Peak Forward Current	300	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current @t=8.3ms	600	
$P_D$	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~+150	°C

**ELECTRICAL CHARACTERISTICS ( T =25°C unless otherwise specified)**

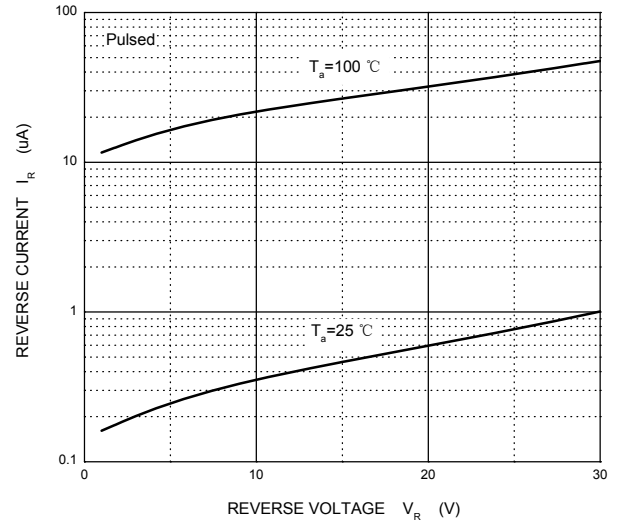
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu A$	30			V
Reverse current	$I_R$	$V_R=25V$			2	$\mu A$
Forward voltage	$V_F$	$I_F=1mA$			320	mV
		$I_F=10mA$			400	
		$I_F=30mA$			500	
		$I_F=100mA$			1000	
Total capacitance	$C_{tot}$	$V_R=1V, f=1MHz$			15	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$			5	ns

Typical Characteristics

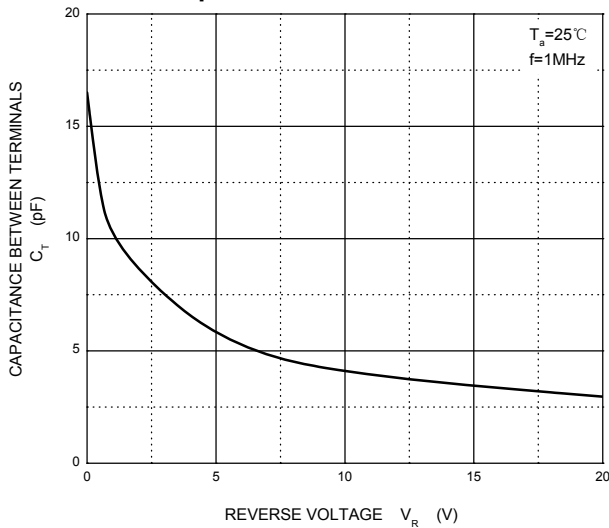
**Forward Characteristics**



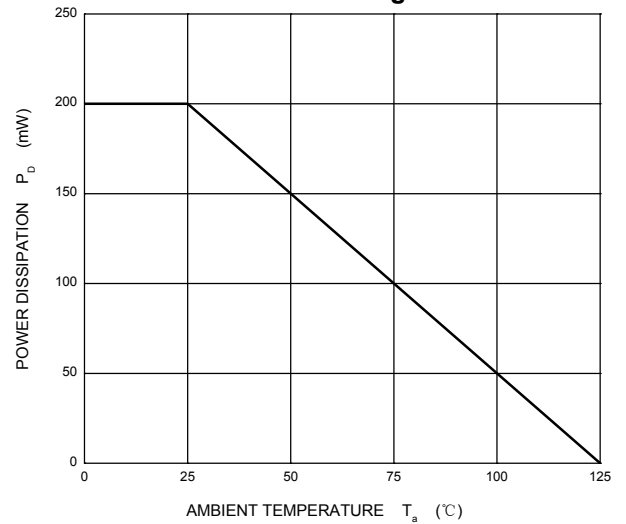
**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**



**Ordering information**

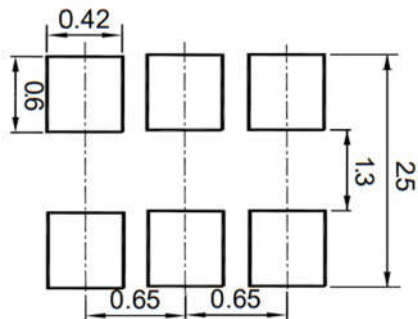
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

**Package Dimensions**

**SOT-363**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

**The recommended mounting pad size**



## Disclaimer

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