



1.Features

■ Bidirectional device

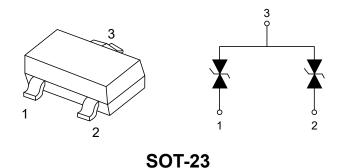
■ Max. pulse power: 140W (8/20 µs)

- Low clamping factor VCL/VBR
- Low leakage current

2.Applications

Automotive interfaces

3.Pinning information



4. Absolute Maximum Ratings

	Parameter	Symbol	Value	Units	
Peak pulse voltage	ISO 10605-C =150pF, R=330 Ω:Contact discharge		13		
	Air discharge		13	- kV	
	ISO 10605-C = 330pF, R=330 Ω: Contact discharge	V	10		
	Air discharge	V_{PP}	10		
	ISO 10605-C = 330 pF, R=2 kΩ: Contact discharge		30		
	Air discharge		30		
Peak pulse power dissipation (8/20 μ s) T_j initial = T_{amb}		P_{PP}	140	W	
Peak pulse current (8/20 μs)		I _{PP}	5.5	А	
Junction temperature range		TJ	-55 to 150	°C	
Storage temperature	torage temperature range T _{STG}		-55 to 150	°C	





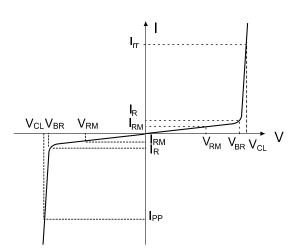


5. Electrical Characteristics

Conditions	Symbol	Min	Тур	Max	Units
I _R =1mA	V_{BR}	6		10	V
V _{RM} =5V	I _R			100	nA
At I _{PP} =1A - 8/20μs	V _{CL}			12	V
At I _{PP} =4A - 8/20μs	V CL			17	V
V _{I/O} =0V, f=1MHz, V _{OSC} =30mV	C _{I/O-GND}		0.95	1.2	pF
V _{1/0} -UV, 1-11VITZ, V _{OSC} -3UITV	$\Delta C_{\text{I/O-GND}}$		0.01		pF
S ₂₁ =-3 dB	f _C		3		GHz
	αT ⁽¹⁾		9		10⁴/°C

Notes: 1. V_{BR} at T_j = V_{BR} at 25°C x (1 + α T x (T_j - 25))

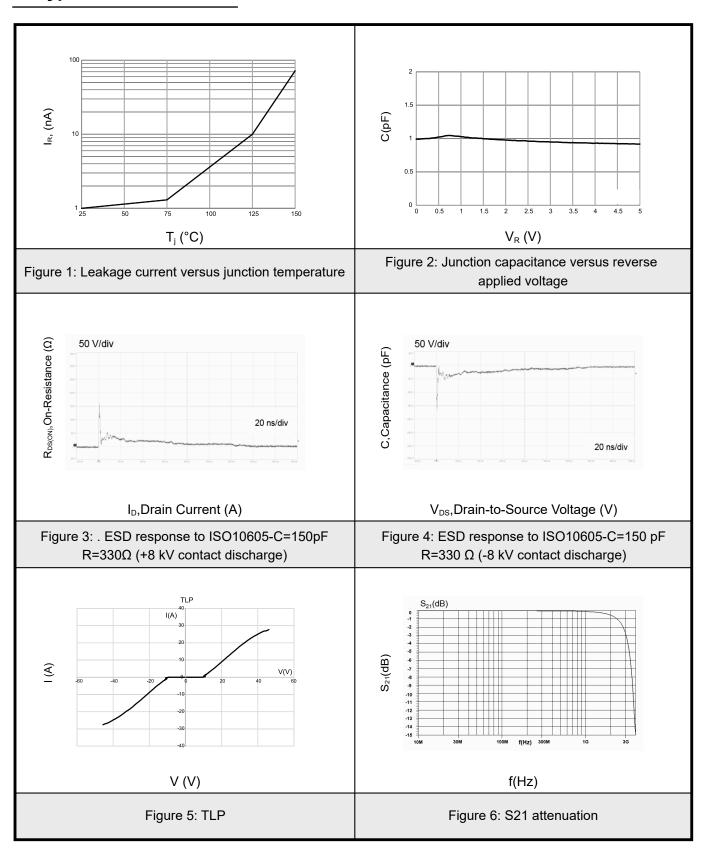
6.Electrical Parameters (T_A =25°C unless otherwise noted)



Symbol	Parameter			
V_{RWM}	Peak Reverse Working Voltage			
I _R	Reverse Leakage Current @ V _{RWM}			
V_{BR}	Breakdown Voltage @ I _⊤			
Ι _Τ	Test Current			
I _{PP}	Maximum Reverse Peak Pulse Current			
V _C	Clamping Voltage @ I _{PP}			
I _F	Forward Current			
V _F	Forward Voltage @ I _F			



7.1Typical characteristic

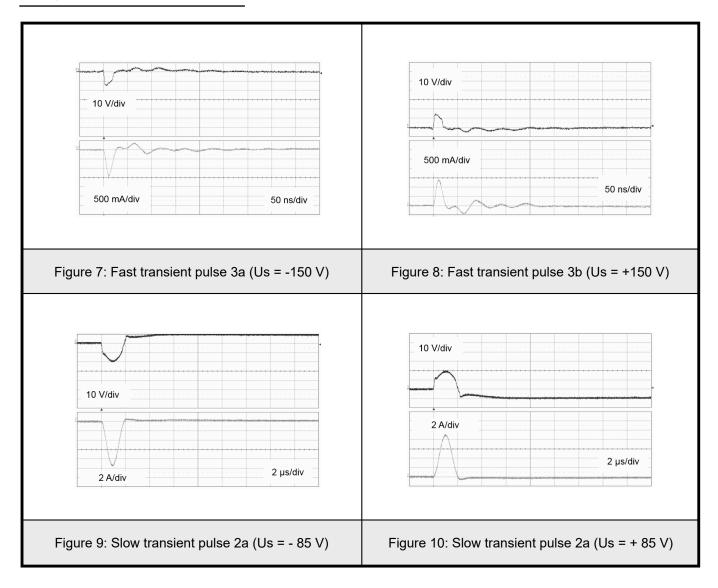








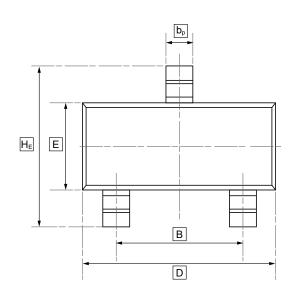
7.2Typical characteristic

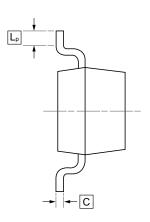


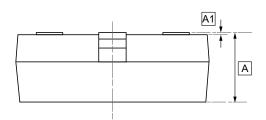




8.SOT-23 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

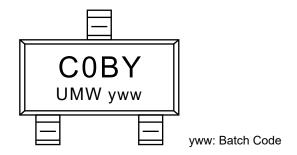
Symbol	Α	В	þр	С	D	E	HE	A1	Lp
Min	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20
Max	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50







9. Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW ESDAVLC6-2BLY	SOT-23	3000	Tape and reel







10.Disclaimer

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