



SOT05C

Preliminary

TVS

SINGLE AND DUAL TVS FOR ESD / TRANSIENT PROTECTION

DESCRIPTION

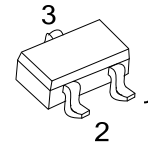
The UTC **SOT05C** is a single and dual TVS, it uses UTC's advanced technology to provide customers with Single and Dual Transient Protector, low leakage current, etc.

The UTC **SOT05C** is suitable for ESD and preventing Latch-Up events.

FEATURES

* IEC61000-4-2 compliance 15kV air, 8kV contact discharge

* Low leakage current: 5 μ A (Max.)



SOT-23
(JEDEC TO-236)

ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
SOT05CL-AE3-R	SOT05CG-AE3-R	SOT-23	K	K	A	Tape Reel

SOT05CG-AE3-R

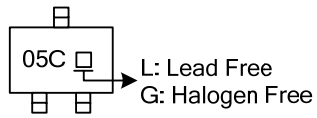
- (1) Packing Type
- (2) Package Type
- (3) Halogen Free

(1) R: Tape Reel

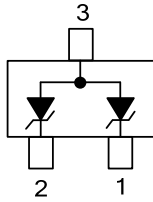
(2) AE3: SOT-23

(3) G: Halogen Free, L: Lead Free

■ MARKING



■ PIN CONFIGURATION



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Pulse Power (8/20μs Waveform)	P _{PP}	140	W
Junction Temperature	T _J	-50~+150	°C
Storage Temperature	T _{STG}	-50~+150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Stand-Off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _{BR} =1mA	6			V
Reverse Leakage Current	I _R	V _R =5V			5	μA
Clamping Voltage (820μs)	V _C	I _{PP} =13A			10	V
Maximum Peak Pulse Current	I _{PP}	8/20μs Waveform			13	A
Off State Capacitance Unidirectional	C _J	0V _{DC} Bias f=1MHz			120	pF

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