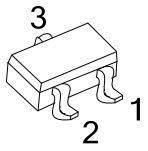
LOW VOLTAGE DIODE FOR ESD AND LATCH-UP PROTECTION



SOT-23
(JEDEC TO-236)

■ DESCRIPTION

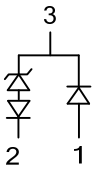
The UTC **SLVU2.8** is a low voltage diode, it uses UTC's advanced technology to provide customers with low leakage current, low capacitance, low operating and clamping voltage, etc.

The UTC **SLVU2.8** is suitable for switching systems, laser diode protection and WAN/LAN Equipment, etc.

■ FEATURES

* Low leakage current
* Low capacitance
* Low clamping voltages
* Low operating voltages

■ SYMBOL



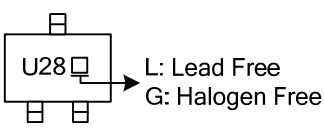
■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
SLVU2.8L-AE3-R	SLVU2.8G-AE3-R	SOT-23	Tape Reel

SLVU2.8L-AE3-R
(1)Packing Type
(2)Package Type
(3)Halogen Free

(1) R: Tape Reel
(2) AE3 : SOT-23
(3) L: Lead Free, G:Halogen Free

■ MARKING



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Pulse Current (tp=8/20μs)	I_{PP}	24	A
Peak Pulse Power (tp=8/20μs)	P_{PK}	400	W
Lead Soldering Temperature	T_L	260 (10 seconds)	°C
Storage Temperature	T_{STG}	-55~+150	°C
Operating Junction Temperature	T_J	-55~+125	°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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Stand-Off Voltage	V_{RWM}	Pin 3 to 2 or Pin 1 to 2			2.8	V
Punch-Through Voltage	V_{PT}	I_{PT}=2μA, Pin 3 to 2	3.0			V
Snap-Back Voltage	V_{SB}	I_{SB}=50mA, Pin 3 to 2	2.8			V
Reverse Leakage Current	I_R	V_{RWM}=2.8V, T=25°C, Pin 3 to 2 or Pin 1 to 2			1	μA
Clamping Voltage	V_C	I_{PP}=2A, t_p=8/20μs, Pin 3 to 2			3.9	V
		I_{PP}=5A, t_p=8/20μs, Pin 3 to 2			7	V
		I_{PP}=24A, t_p=8/20μs, Pin 3 to 2			12.5	V
		I_{PP}=5A, t_p=8/20μs, Pin 1 to 2			8.5	V
		I_{PP}=24A, t_p=8/20μs, Pin 1 to 2			15	V
Junction Capacitance	C_j	Pin 3 to 2 and 1 (Pin 2 and 1 Tied Together), V_R=0V, f=1MHz		70	100	pF
		Pin 1 to 2 (Pin 3 N.C.), V_R=0V, f=1MHz		5	10	pF
Steering Diode Characteristics						
Reverse Breakdown Voltage	V_{BR}	I_T=10μA, Pin 3 to 1	40			V
Reverse Leakage Current	I_{RD}	V_{RWM}=2.8V, T=25°C, Pin 3 to 1			1	μA
Forward Voltage	V_F	I_F=1A, Pin 1 to 3			2	V