

**Chip TVS diode.****Die size: 11mil.**

Mechanical date: A= B=280um.

Chip thickness: a) 138+/-12um for SM-05L41;

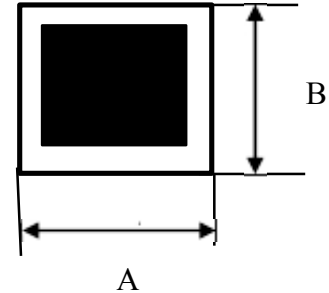
b) without the grinding (480um max.)– for SMB-05L42.

Scribe Line Width – 60um.

Top side – Cathode. Al metallization for wire bond.

Back side- Anode. a) SM-05L41 – Ti-Ni-Ag for Soldering.

b) SM-05L42 – without the metallization.

**Limiting values**

Parameter	Symbol	Conditions	Value	Unit
Working Peak Reverse Voltage	V_{RWM}		5,0.	V
Peak Pulse Power	P_{pp}	$t_p= 8/20\mu S$	60*	W
Max. Peak Pulse Current	I_{PP}	$t_p= 8/20\mu S$	4,0*	A
Electrostatic discharge	V_{ESD}	IEC 61000-4-2. Level-4.	+/-8,0 –Contact. +/-15,0 – Air.	kV
Max.Junction Temperature	T_j		+150	°C

Characteristics . $T_j=25^\circ C$.

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
I_R	Diode reverse leakage current.	$V_R=5,0V$	-	-	0,9	μA
V_{BR}	Breakdown voltage.	$I_R=1mA$	6,25	6,8	7,5	V
C_j	Diode capacitance .	$F=1MHz, V_R=0V$.	-	25	-	pF
V_{CL}	Clamping voltage	$I_R=1A, t_p= 8/20\mu S$ $I_R= 4,0A, t_p= 8/20\mu S$	-	-	9,0* 15,0*	V
V_f	Forward Voltage	$I_f=10mA$	-	-	1,1	V

*- For Device testing