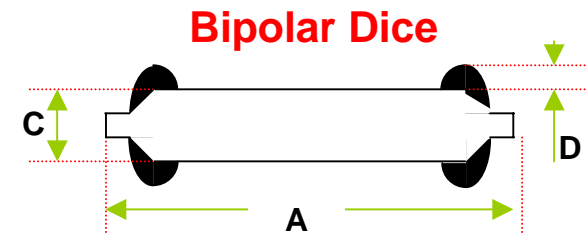
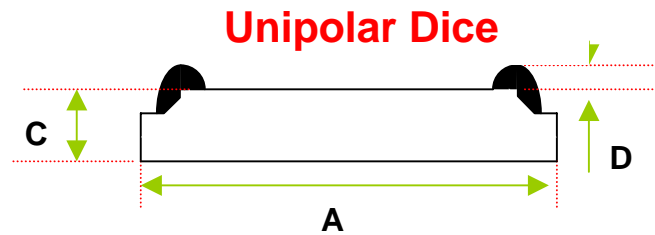
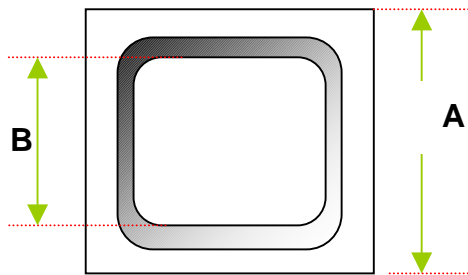


DICE SPEC.

Product : TVS GPP



Product		P4KE	SMAJ	SA	P6KE	SMBJ	1.5KE	SMCJ
Dice dimension mm/ mil	A	1.48±0.05mm / 58±2mil	1.8±0.05mm / 71±2mil	2.0±0.05mm / 79±2mil	2.92±0.05mm / 115±2mil			
	B (min.)	1.0 mm / 39mil	1.39mm / 54mil	1.49mm / 59mil	2.43mm / 95mil			
	C	0.35±0.05mm / 13.5±2mil						
	D (max)	50mm / 2mil						
Metallization		Ni/Ni/Au (Back & Front Side)						
BVR (note1.2)	Unipolar	6.8A ~ 220A	5.0A ~ 170A	5.0A ~ 170A	6.8A ~ 220A	5.0A ~ 170A	6.8A ~ 220A	5.0A ~ 170A
	Bipolar	6.8A ~ 220A	6.0A ~ 170A	6.0A ~ 170A	6.8A ~ 220A	6.0A ~ 170A	6.8A ~ 220A	6.0A ~ 170A
IR (note3)	-- / 5.0A	--	800uA	600uA	--	800uA	--	800uA
	6.8A / 6.0A	1000uA	800uA	600uA	1000uA	800uA	1000uA	800uA
	7.5A / 6.5A	500uA	500uA	400uA	500uA	500uA	500uA	500uA
	8.2A / 7.0A	200uA	200uA	150uA	200uA	200uA	200uA	200uA
	-- / 7.5A	--	100uA	50uA	--	100uA	--	100uA
	9.1A / 8.0A	50uA	50uA	25uA	50uA	50uA	50uA	50uA
	10A / 8.5A	10uA	10uA	10uA	10uA	10uA	10uA	10uA
	11A~220A / 9.0~170A	5uA	5uA	3uA (**9.0A: 5uA)	5uA	5uA	5uA	5uA
Dice total yield %		95						

Note : 1.) Suffix 'A' denotes 5% tolerance chip .

2.) The BVR Limit : Min. is 95% / Max. is 105% for P4/P6/1.5KE chip ; Min. is 111% / Max. is 123% for SMA/SA/SMB/SMC chip .

3.) For Bipolar devices with BVR of 10 volts and under, the IR limit is doubled .