

Features

SMA Package
Fast reverse recovery time

SP6S SP6SG

6kv 10mA 100ns
High Voltage Diode

Device Electrical Characteristics

(Ta=25°C Unless otherwise noted)

Items	Conditions	Symbol	Unit	Value	
				SP6S	SP6SG
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	kv	6	6
Average Forward Current Maximum	Ta=55°C	I_{FAVM}	mA	10	10
Maximum Forward Voltage	$I_F = I_{F(AV)}$	V_{FM}	Volts	16	16
Maximum Surge Current rating	10msec, half sine	I_{FSM}	Amps	1	1
Maximum Reverse Current	$V_R = V_{RRM}$	I_{RM1}	μA	0.5	0.5
Maximum High Temperature Reverse Current	Ta=100°C $V_R = V_{RRM}$	I_{RM2}	μA	5	5
Maximum Reverse Recovery Time	$I_F = 10mA$ $I_R = 20mA$ $I_{RR} = 5mA$	trr	ns	100	100
Lead Type				Fig.1	Fig.2
Minimum Junction Temperature	—	Tj	°C	120	
Storage Temperature Range	—	TSTG	°C	-40to160	

Mechanical Data

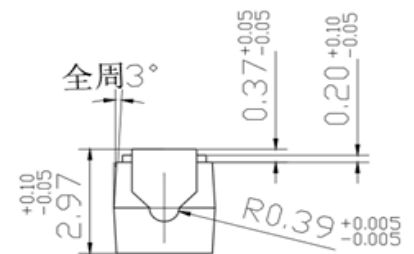
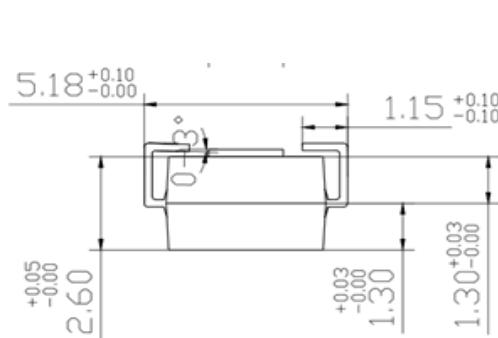
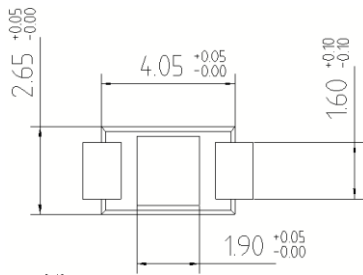


Fig.1

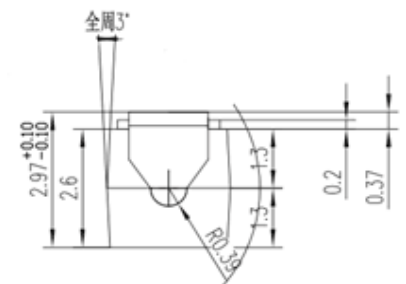
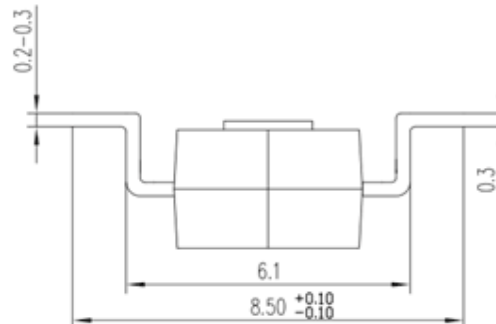
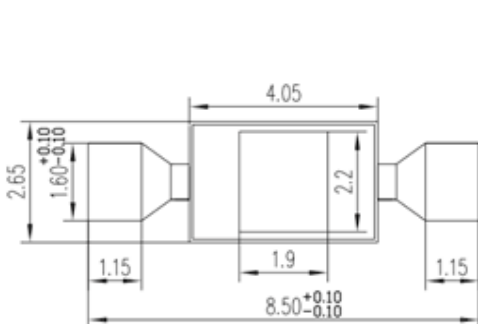


Fig.2