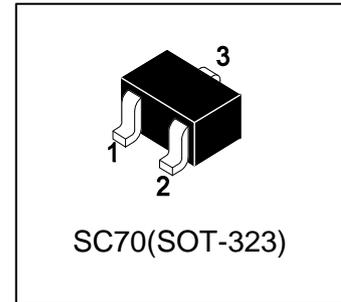


Common Cathode Silicon

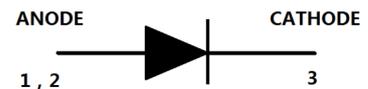


1. FEATURES

- Fast trr , < 3.0 ns
- Low CD , < 2.0 pF
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.

2. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
M1MA142WKT1G	MU	3000/Tape&Reel
M1MA142WKT3G	MU	10000/Tape&Reel



3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse Voltage	VR	80	V
Peak Reverse Voltage	VRM	80	V
Forward Current	Single	100	mA
	Dual	150	
Peak Forward Current	Single	225	mA
	Dual	340	
Peak Forward Surge Current(Note 1)	Single	500	mA
	Dual	750	

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Power Dissipation	PD	150	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C

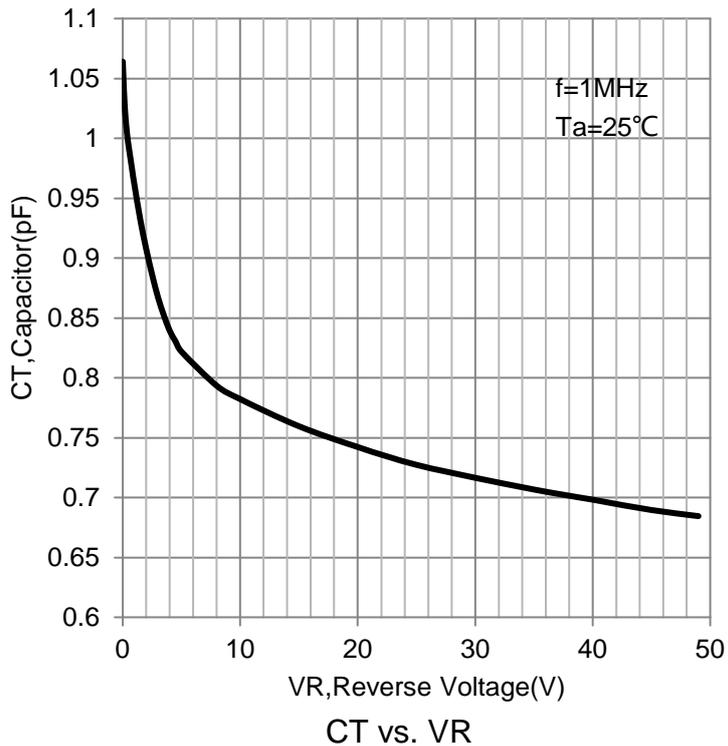
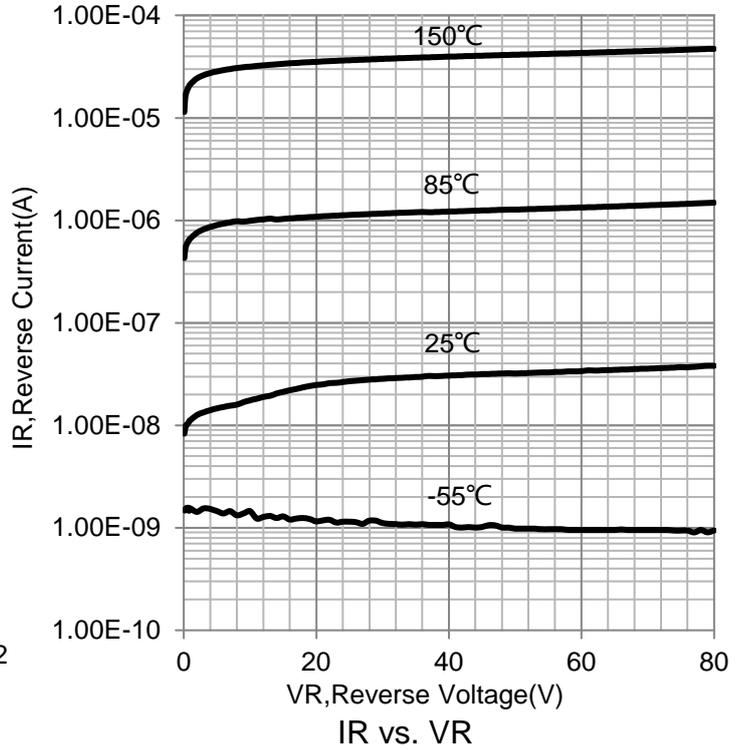
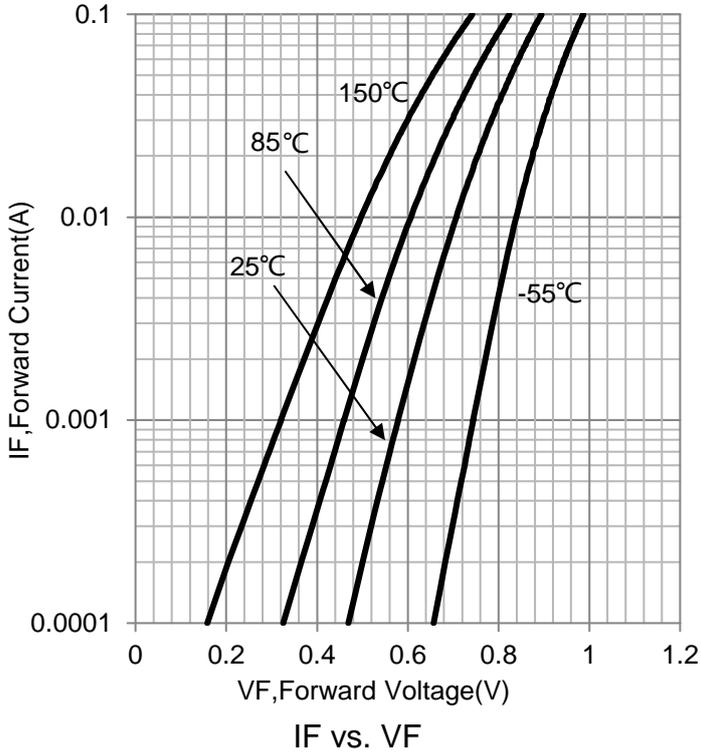
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

CHARACTERISTICS	Symbol	Min	Max	Unit
Reverse Voltage Leakage Current (VR = 75 V)	IR	-	0.1	μA
Forward Voltage (IF = 100 mA)	VF	-	1.2	V
Reverse Breakdown Voltage (IR = 100 μA)	VR	80	-	V
Diode Capacitance (VR =0, f=1.0 MHz)	CD	-	2	pF
Reverse Recovery Time (IF =10mA,VR =6.0V,RL =100Ω,Irr =0.1 IR)	trr	-	3	ns

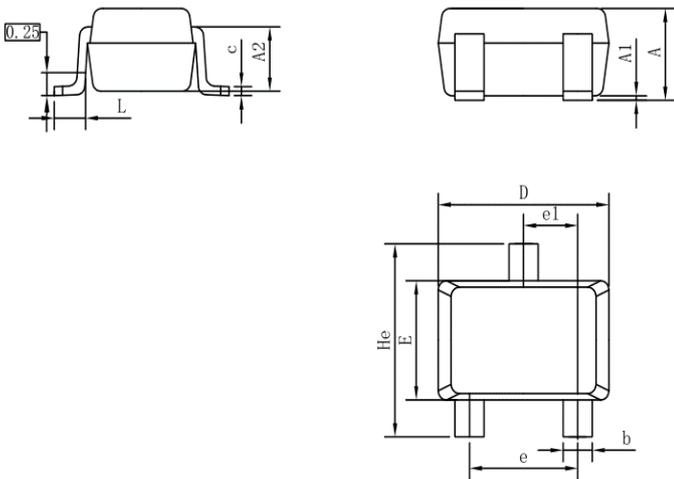
1. t = 1 S

2. trr Test Circuit

6. ELECTRICAL CHARACTERISTICS CURVES

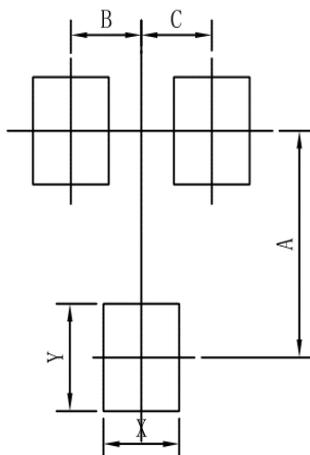


7. OUTLINE AND DIMENSIONS



SC70			
DIM	MIN	NOR	MAX
A	0.80	0.95	1.00
A1	0.00	0.05	0.10
A2	0.7 REF		
b	0.30	0.35	0.40
c	0.10	0.15	0.25
D	1.80	2.05	2.20
E	1.15	1.30	1.35
e	1.20	1.30	1.40
e1	0.65 BSC		
L	0.20	0.35	0.56
He	2.00	2.10	2.40
ALL Dimension in mm			

8. SOLDERING FOOTPRINT



SC70	
DIM	MIN
A	1.90
B	0.65
C	0.65
X	0.70
Y	0.90