

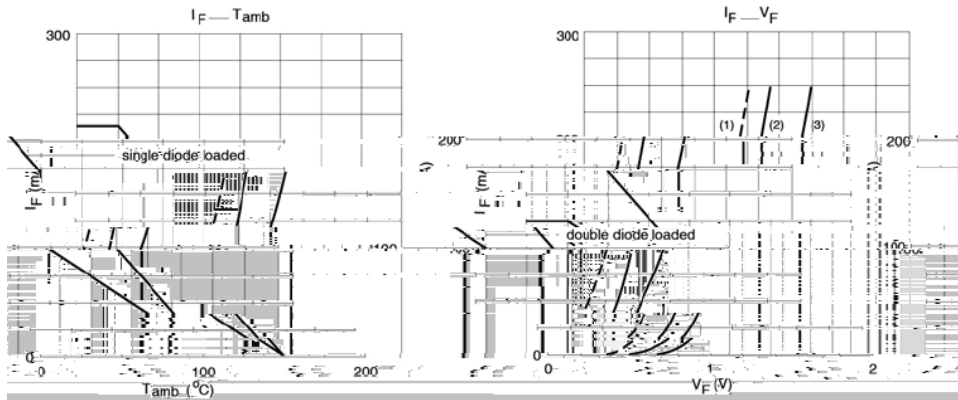
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(\text{single diode loaded})}$	215	mA
	$I_{F(\text{double diode loaded})}$	125	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM(1)(t=1\mu S)}$	4.0	A
	$I_{FSM(2)(t=1mS)}$	1.0	A
	$I_{FSM(3)(t=1S)}$	0.5	A
Power Dissipation	P_{tot}	250	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

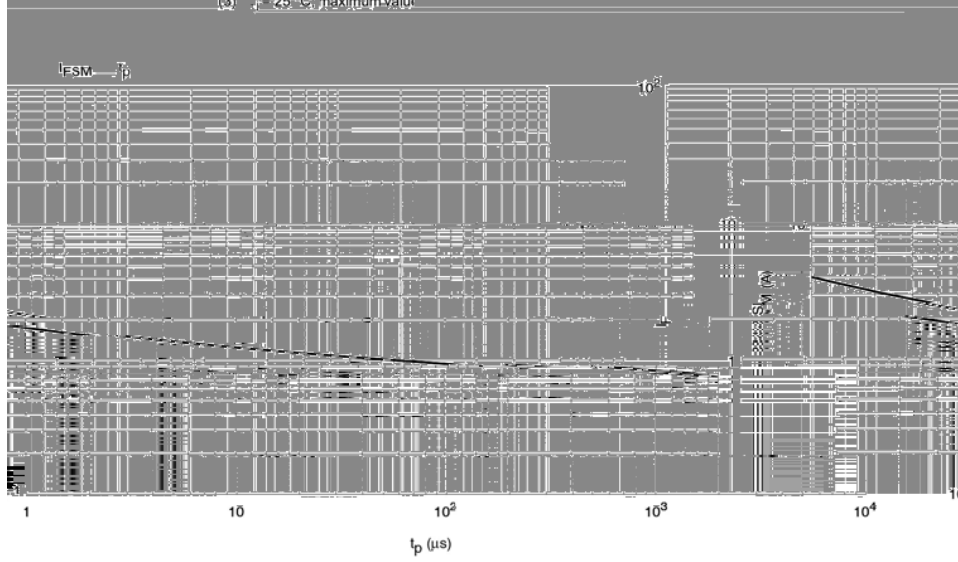
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=1.0mA$			715	mV
		$I_F=10mA$			855	mV
		$I_F=50mA$			1.0	V
		$I_F=150mA$			1.25	V
Instantaneous Reverse Current	I_R	$V_R=25V$			30	nA
		$V_R=75V$			1.0	μA
		$V_R=25V \quad T_A=150$			30	μA
		$V_R=75V \quad T_A=150$			50	μA
Total Capacitance	C_T	$V_R=0 \quad f=1.0MHz$			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA$ $I_{RR}=1.0mA \quad R_L=100$			4.0	ns
Forward recovery voltage	V_{ft}	$I_F=10mA \quad t_r=20ns$			1.75	V

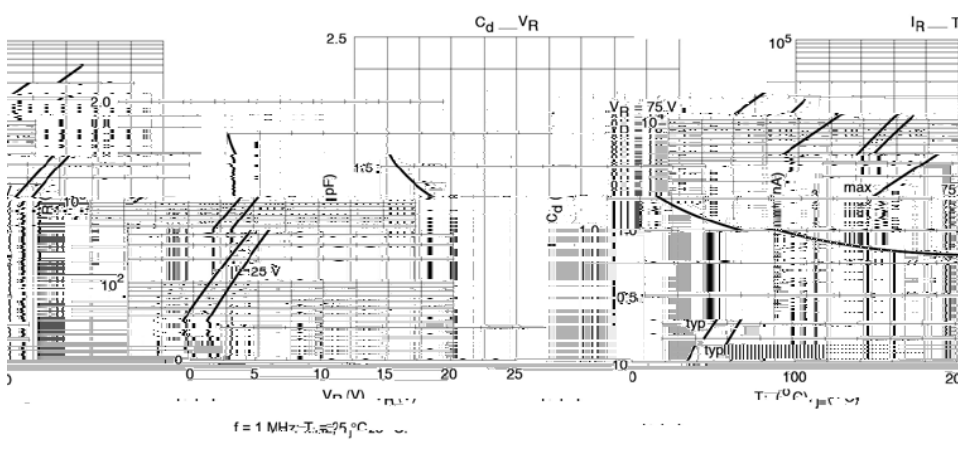
/ Electrical Characteristic Curve



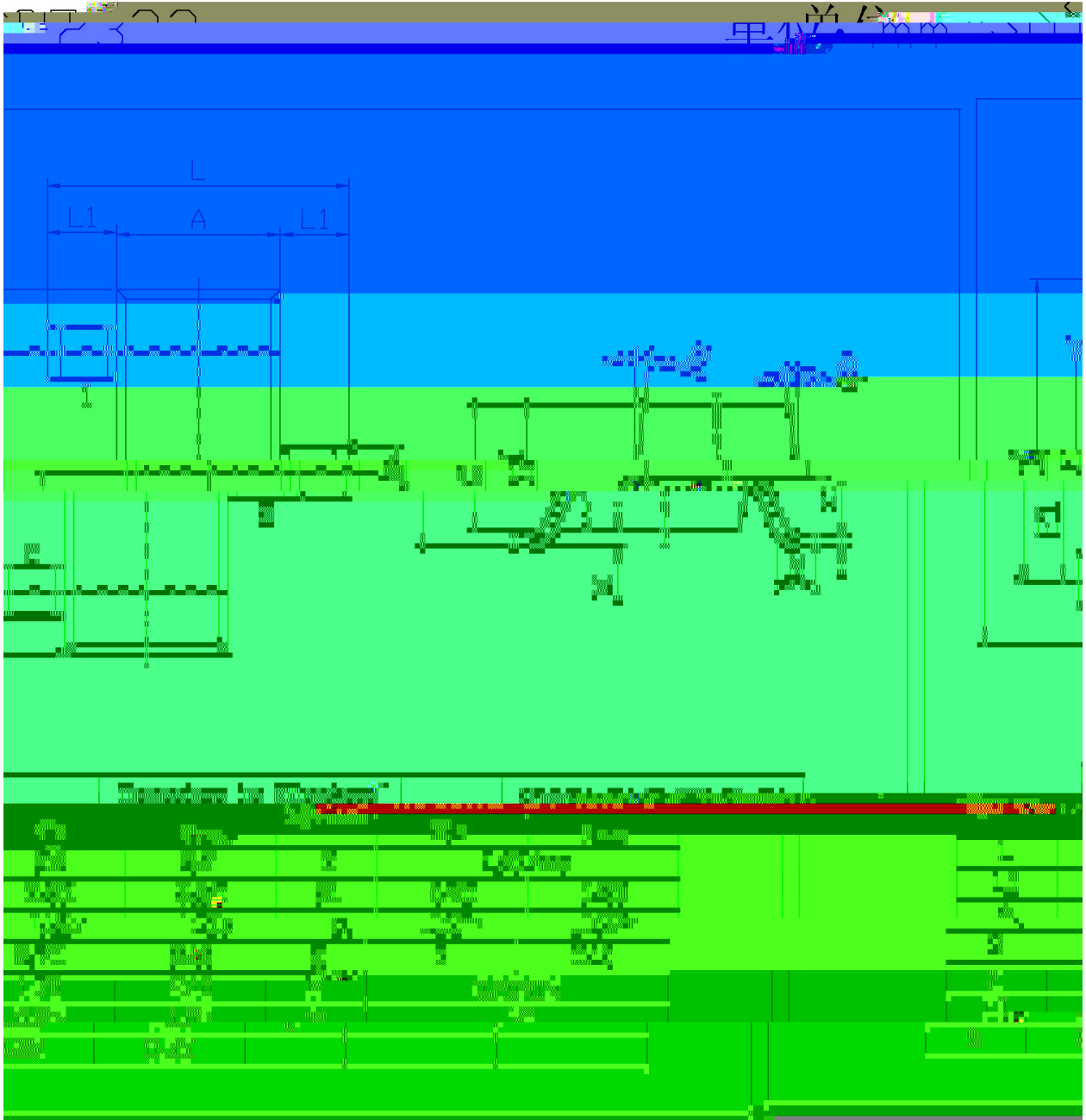
Notes:
(1) $T = 150^\circ\text{C}$, typical values.
(2) $T = 25^\circ\text{C}$, typical values.
(3) $T = 25^\circ\text{C}$, maximum value.



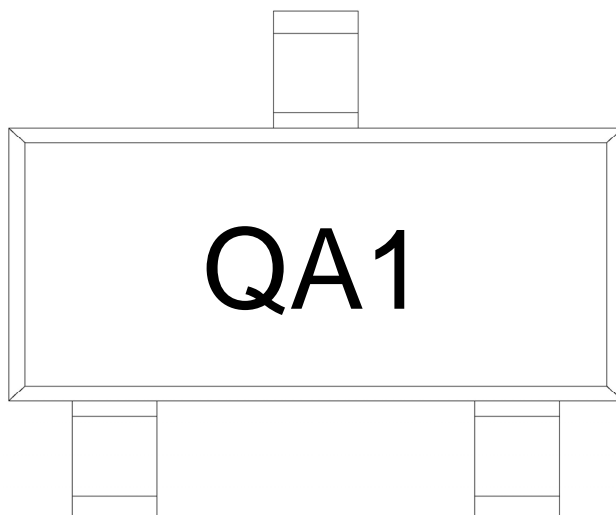
Notes:
 $T_j = 25^\circ\text{C}$ prior to surge.



/ Package Dimensions



/ Marking Instructions



Note:

Q: Automobile halogen-free product Code

A1: Product Type

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1 150 200 60 120sec; 1.Preheating:150~200 , Time:60~120sec.
- 2 255 5 5 0.5sec; 2.Peak Temp.:255 5 , Duration:5 0.5sec.
- 3 2 10 /sec. 3.Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL