

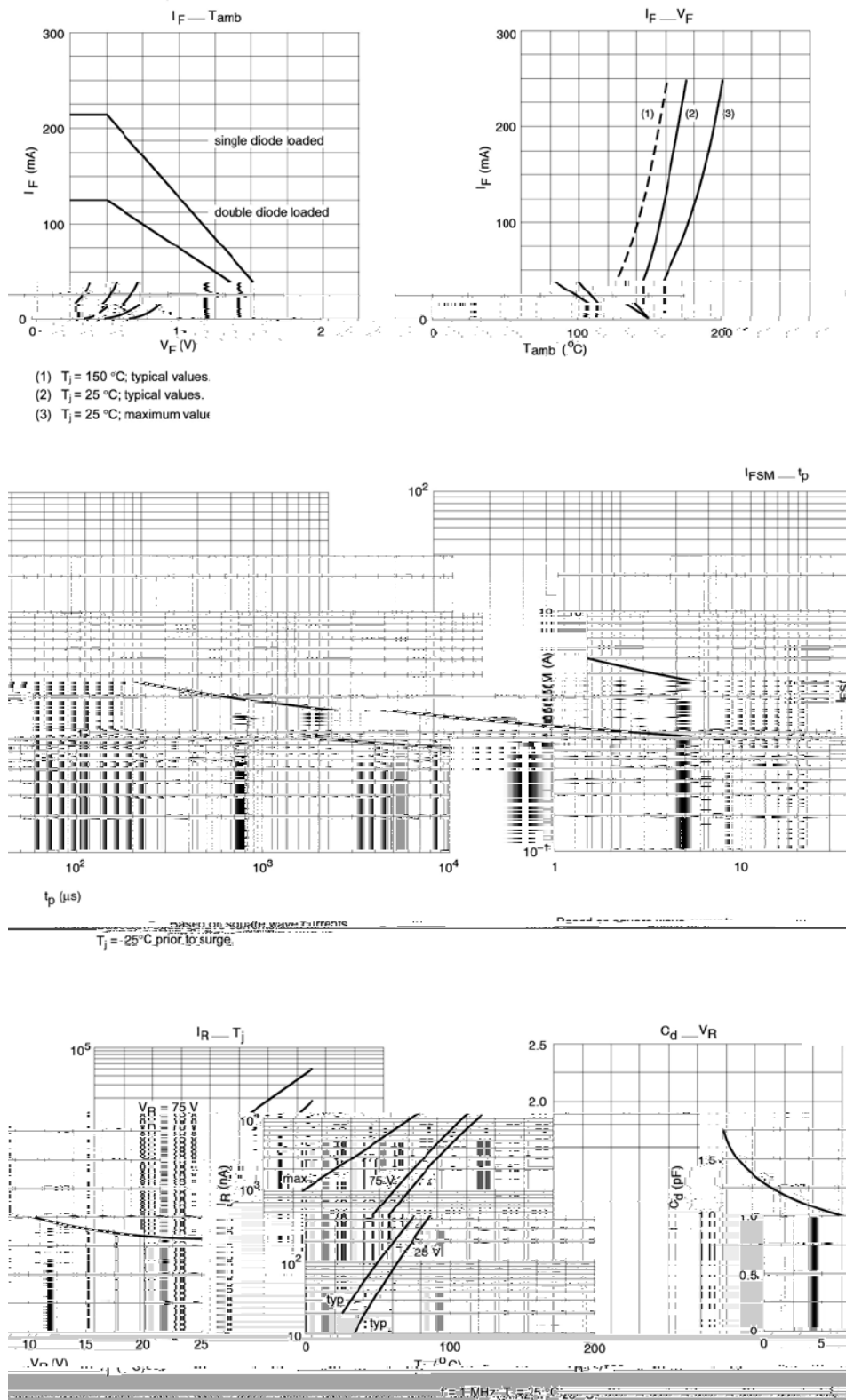
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Average Rectified Forward Current	I_F (single diode loaded)	215	mA
	I_F (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	°C
Storage Temperature Range	T_{stg}	-55 150	°C

/ 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}	$I_F=1R=10mA$ $I_{RR}=1.0mA \quad R_L=100\Omega$			4.0	ns
Forward recovery voltage	V_{ft}	$I_F=10mA \quad t_r=20ns$			1.75	V

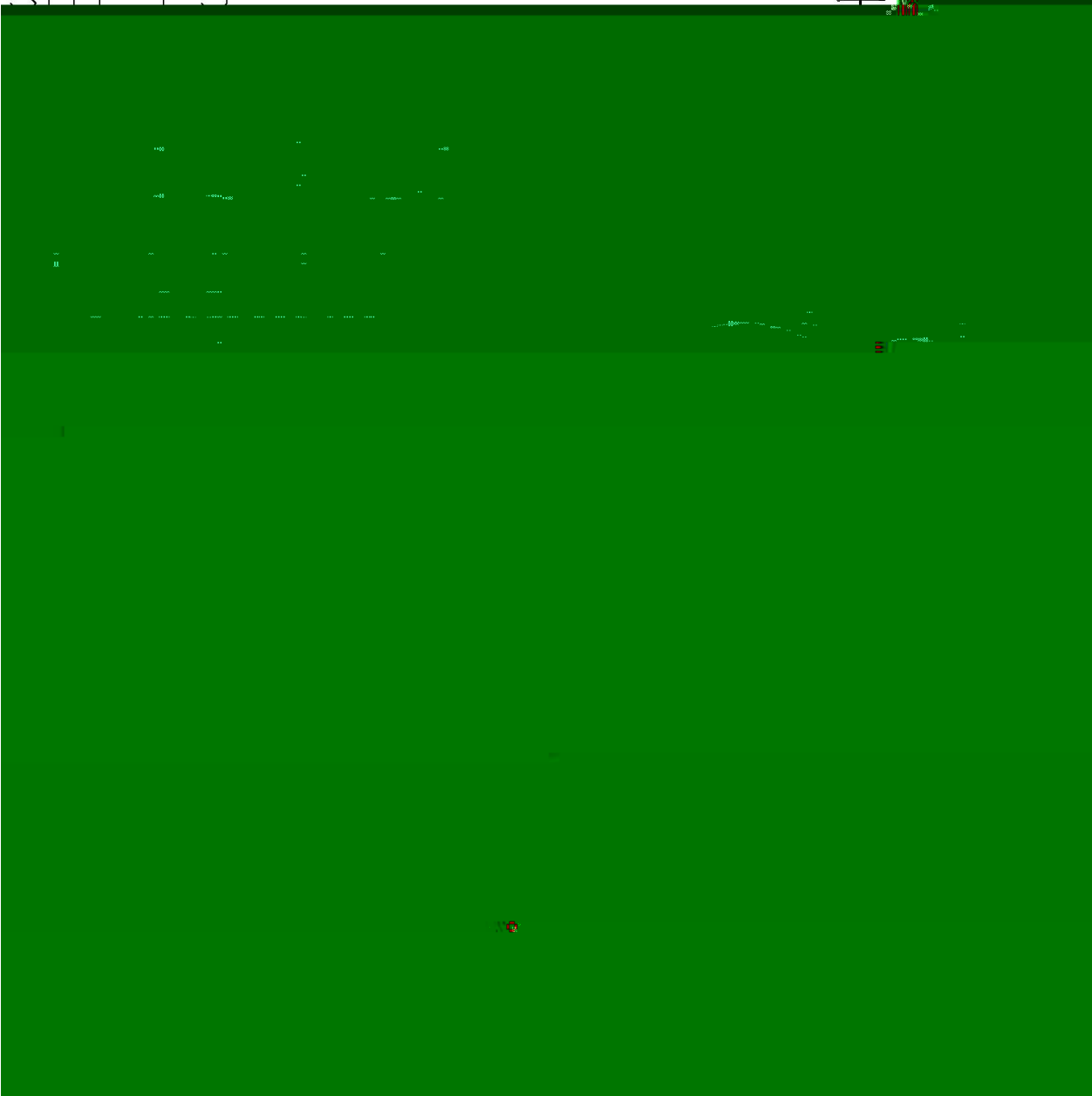
/ Electrical Characteristic Curve



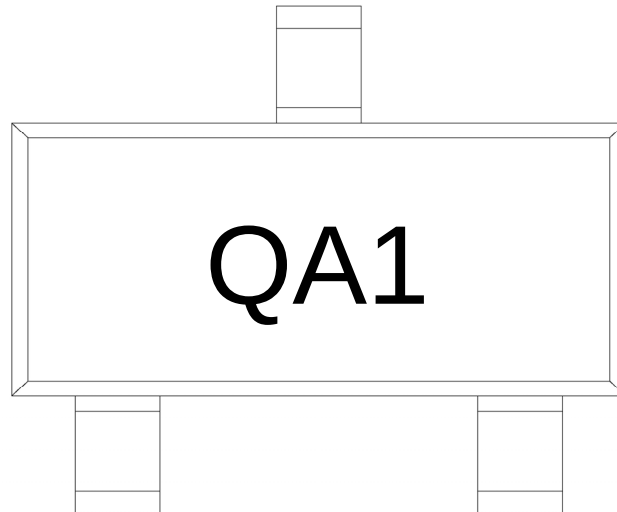
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



Q

A1

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
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/ **Packaging SPEC.**

/ REEL

Package Type	Units				Dimension		(unit mm ³)