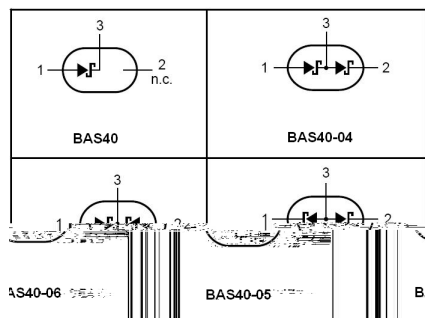


Schottky barrier diodes in a SOT-23 Plastic Package.

Ultra high-speed switching, voltage clamping, protection circuits.

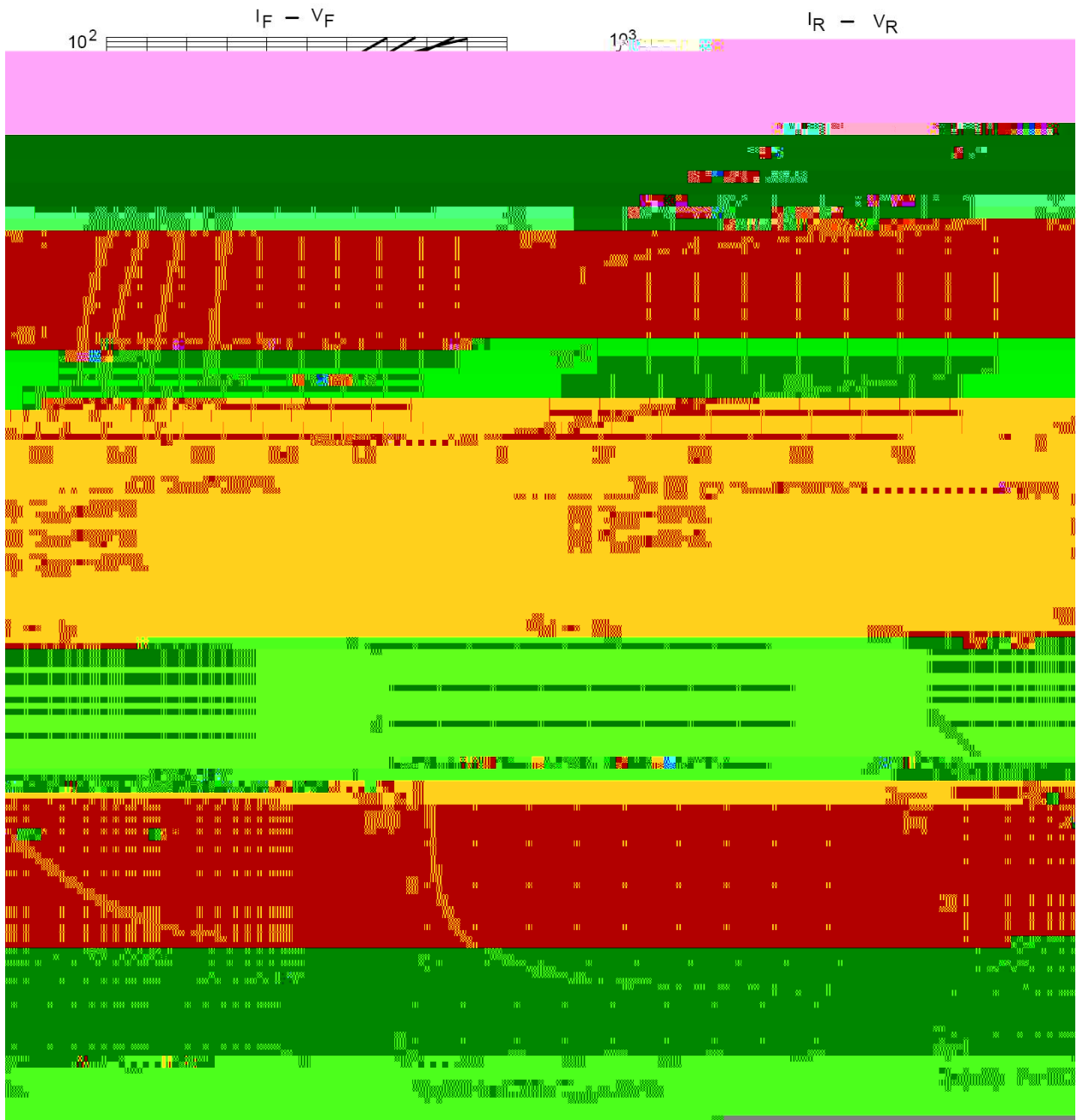


PIN: See Equivalent Circuit.

Type	BAS40	BAS40-04	BAS40-05	BAS40-06
Marking	H43	H44	H45	H46

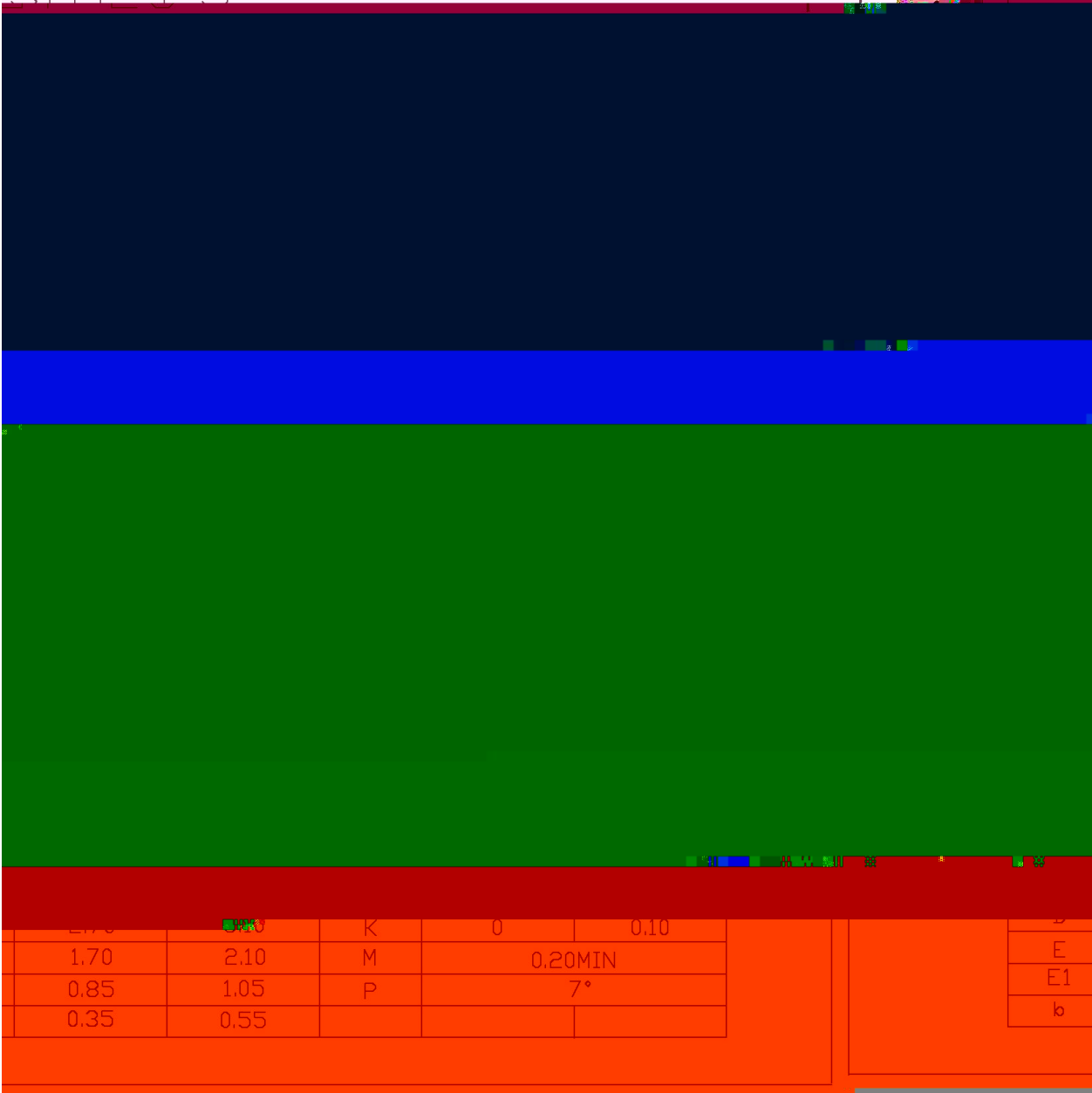
Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_R	40	V
Average Rectified Forward Current	I_F	120	mA
Repetitive Peak Forward Surge Current	$I_{FRM} \quad t_p \leq 1s$	120	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM} \quad t_p < 10ms$	100	mA
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$	500	K/W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=1mA$			380	mV
		$I_F=10mA$			500	mV
		$I_F=40mA$			1.0	V
Instantaneous Reverse Current	I_R	$V_R=30V$			1.0	μA
		$V_R=40V$			10	μA
Diode Capacitance	C_d	$V_R=0 \quad f=1MHz$			5	pF



SOT-23

单位



1.70	0.85	K	0	0.10			
1.70	2.10	M	0.20MIN				E
0.85	1.05	P	7°				E1
0.35	0.55						b



H

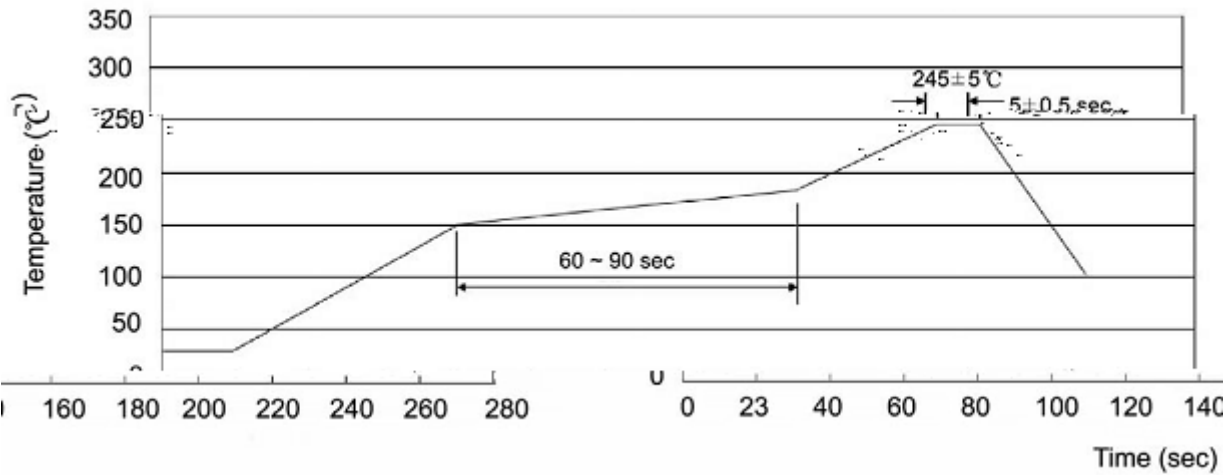
43

Note:

H: Company Code.

43: Product Type.

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;
- 2

245±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

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

/ REEL

Package Type	Units					Dimension		(unit mm ³)