

# **Reliability test report**

**Category: Rectifier diode**

**Model: M7**



Product model		M7	Batch number		2020	
Packages		SMA				
Serial number	Test items	Test conditions	Number of tests	Judging standard	Defective rate	Determine
1	Resistance to welding heat	260°C ± 5°C / 10S	22	AC=0	0	OK
2	Solderability	235°C ± 5°C / 3S	22	AC=0	0	OK
3	High temperature reverse bias	SKY: 100°C / 80%VR / 18h GPP: 125°C / 80%VR / 18h	28	AC=0	0	OK
4	High pressure cooking	121°C ± 2°C / 8h	100	AC=0	0	OK
5	Constant temperature and humidity	TA=80°C & RH=85%, 12h	100	AC=0	0	OK
6	Forward surge	8.3ms, Single phase sine half wave	11	AC=0	0	OK
7	High temperature storage	150°C ± 3°C / 12h	75	AC=0	0	OK
8	Low temperature storage	-55°C ± 3°C / 12h	75	AC=0	0	OK
9	High low temperature cycle	-55°C / 150°C, Hold for 30 minutes, switching time for 5 minutes, 10 cycles	75	AC=1	0	OK
Remarks						