

1A,50-1000V Standard Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260°C/10 seconds



Applications

For use of general purpose rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)									
Parameter	Symbol	M1	M2	М3	M4	M5	M6	M7	Unit
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)	1					А		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	Ifsm	30					A		
Operating junction temperature range	TJ	-55 to +150					°C		
Storage temperature range	Tstg	-55 to +150					°C		

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)							
Parameter	Symbol	Тур	Unit				
Thermal Resistance, Junction to Ambient	R _{θJA}	90	°C /W				
Thermal Resistance, Junction to Case	Rejc	20	°C /W				
Thermal Resistance, Junction to Lead	R _{θJL}	25	°C /W				



Electrical Specifications(TA=25°C unless otherwise noted)												
Parameter	Symbol	Test Conditions	M1	M2	М3	M4	M5	M6	M7	Unit		
Forward Drop Voltage	VF	I _F =1A	1.1					V				
Reverse		TJ =25℃				5						
leakage I _R current @V _R	IR	T」=125℃				50				uA		
Typical junction capacitance	CJ	4.0 V 1 MHZ	4					pF				
Typical reverse trr recovery time	I _F =0.5A,								uS			
	trr	I _R =1.0A,	1.8									
		I _{RR} =0.25A										

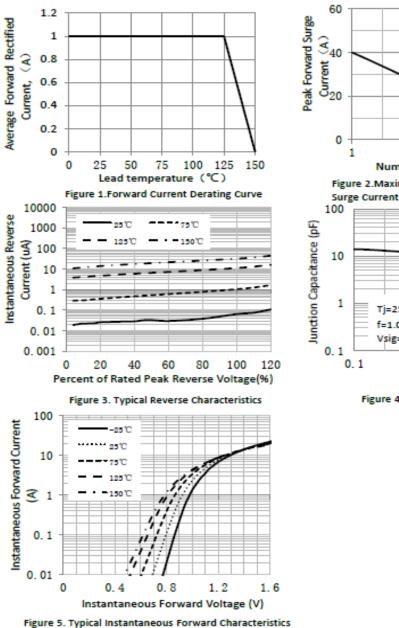
Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



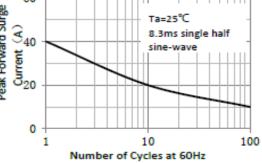
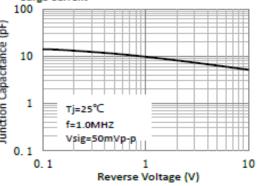


Figure 2.Maximum Non-Repetitive Peak Forward



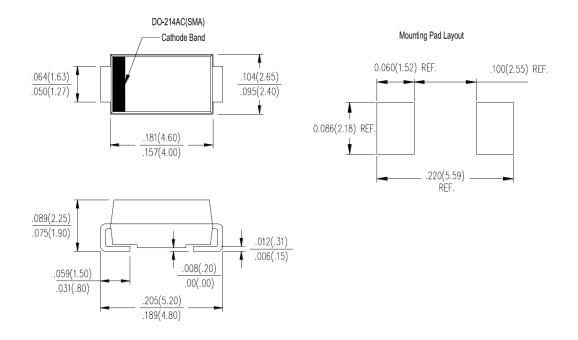




Package Outline Dimensions

in inches (millimeters)

SMA (DO-214AC)



Revision History

Document Version	Date of release	Description of changes				
Rev.A	2021.06.01	Released Datasheet				
Rev.B	2023.10.18	Modify document format				



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