

Surface Mount General Rectifier in DO-214AC/SMA

Features

- Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- For surface mounted applications



- Case: JEDEC DO-214AC(SMA)molded plastic Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals





Maximum	Ratings A	And	Electrical	Characteristi	CS

Parameter		M1	M2	М3	M4	M5	М6	M7	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=110°C		1.0				Amp			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm				30.0				Amps
Maximum instantaneous forward voltage at 1.0A		1.1					Volts		
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR				5.0 50.0				μА
Typical junction capacitance (NOTE 1)					15.0				pF
Typical thermal resistance (NOTE 2)		75.0					°C/W		
Operating junction and storage temperature range		-55 to +125				°C			

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

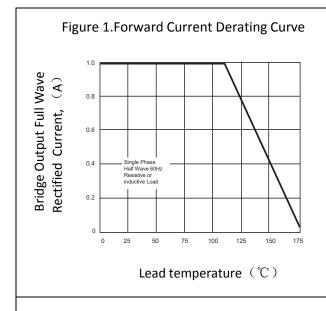


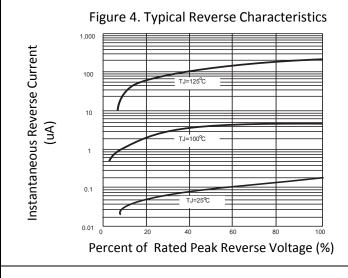
Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

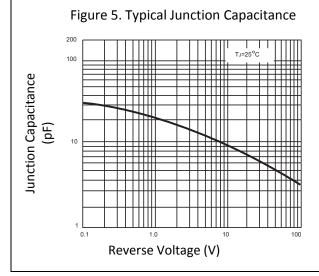
30
25
10
8.3ms SINGLE HALF SINE-WAVE (JEDEC Method)

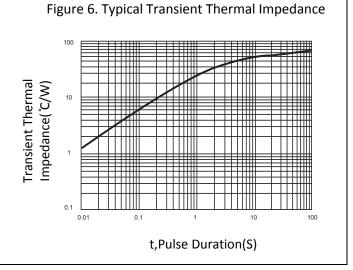
Number of Cycles at 60Hz

Figure 3. Typical Instantaneous Forward Characteristics

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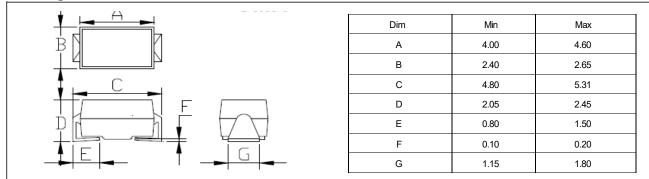




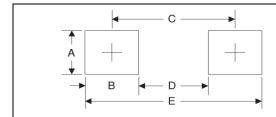
Rev. 1.1 www.crea-tek.com



Package Dimensions

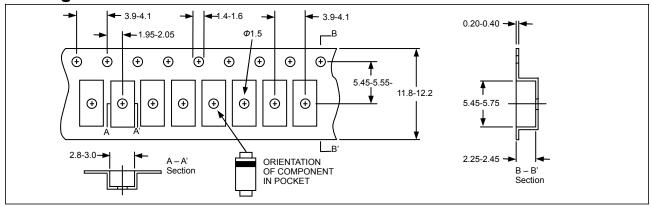


PAD Dimensions

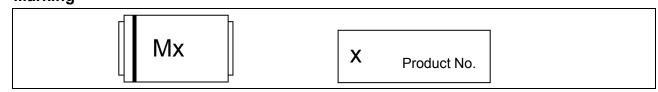


Symbol	Unit (mm)	Unit (inch)		
Α	1.68	0.066		
В	1.52	0.060		
С	3.90	0.154		
D	2.41	0.095		
E	5.45	0.215		

Package Information



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification	
M1 thur M7	DO-214AC/SMA	Tape and reel	5000pcs / reel	EIA STD RS-481	

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
14-Jan2019	1.1	Update



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