

Fast Recovery Surface Mount Rectifier

SMA(DO-214AC)			Feat	ures							
				DHS co ass pa gh forv eet MS maxir Ider di mpon d WEE . recog	ssivat vard si L leve num p p 260 ent in EE 200	ed chi urge c I 1, pe eak o °C / 4 accore)2/96/	apabi er J-S ⁻ f 250 ° 0S dance WC	rD-02 °C to RC)HS 20	002/95	PB /EC
Primary characteristics			Applications								
I _{F(AV)}		1A	Ideal	al for ac-to-dc bridge full wave rectification suck						uck as	
V _{RRM}	50V to	01000V	SMPS, home applianes, office equipment, indusrial								
I _{FSM}	3	0A	automation applicatios								
I _{RM}	5	uA	1								
V _{FM} at I _F =1 A		.3V	Mechanical data								
$T_{\rm J}$ max.		0°C	 SMA(DO-214AC) 								
Maximum rating (Ta	⊨25ºC u	nless othe	Po Mo Re erwise r	comm	As ma g Torqu lendec	irked. ue:10c I Torqi	m-kgi ue:5.7	(8.8 in	ches-l g(5 inc	-	os)
Parameter			Sym	vm i i i i i			GR1M	Unit			
Max. repetitive peak reverse	voltage		Vrrm	50	100	200	400	600			V
Max. RMS reverse voltage	ax. RMS reverse voltage		VRMS	35	70	140	280	420	560	700	V
Max. DC blocking voltage			V _{DC}	50	100	200	400	600	800	1000	V
Max. average forward current					1						
max arerage termata earrer			I _{F(AV)}				1				А
Non-repetitive peak forward 8.3ms single half-sine-wave	surge curre	ent	I _{F(AV)} Ifsm				1 30				A A
Non-repetitive peak forward	surge curre					1)			
Non-repetitive peak forward 8.3ms single half-sine-wave	surge curre		Ifsm Vfm			1	30)			A V
Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward	surge curre voltage dro current	op per diode	IFSM				30 .3 (1A) 5 50				A V µA
Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat	surge curre voltage dro current	op per diode Ta=25 ⁰C	Ifsm Vfm Irm Tj			-5	30 .3 (1A) 5 50 5 ~ +15	50			Α V μΑ °C
Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat Storage temperature	surge curre voltage dro current e ure	op per diode Ta=25 °C Ta=125 °C	IFSM VFM IRM TJ TSTG			-5	30 .3 (1A) 5 50	50			A V µA °C °C
Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat	surge curre voltage dro current e ure	op per diode Ta=25 °C Ta=125 °C	IFSM VFM IRM TJ TSTG trr		15	-5	30 .3 (1A) 5 50 5 ~ +15 5 ~ +15	50	50	0	A V μA °C
Non-repetitive peak forward 8.3ms single half-sine-wave Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltage Operating junction temperat Storage temperature	surge curre voltage dro current e ure time (Note	op per diode Ta=25 °C Ta=125 °C	IFSM VFM IRM TJ TSTG		15	-5	30 .3 (1A) 5 50 5 ~ +15	50	50	0	A V µA °C °C

Notes: 1 Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25$

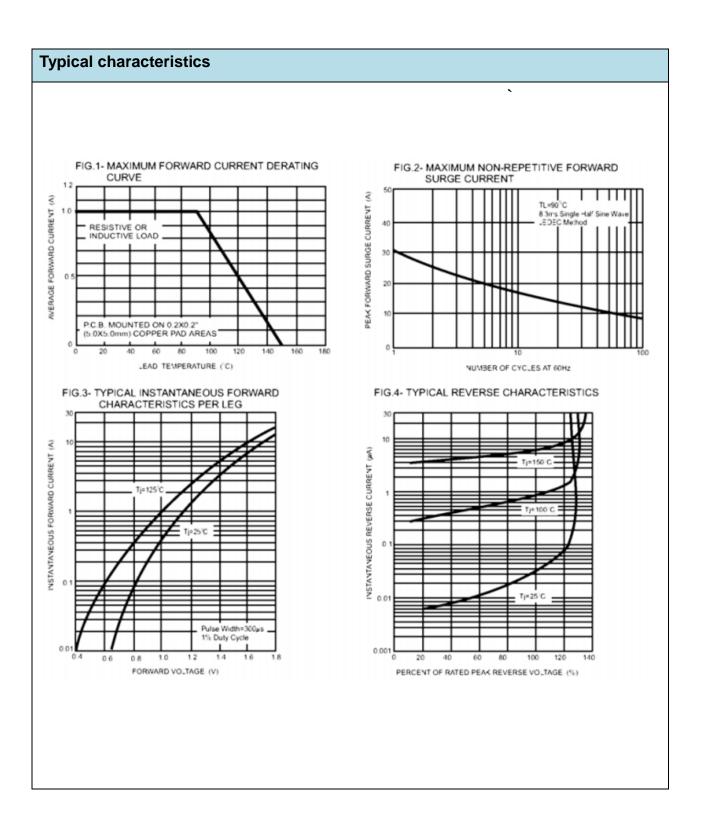
2 Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2" x 0.2" (5.0 x 5.0 mm) Copper Pad Areas

3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C



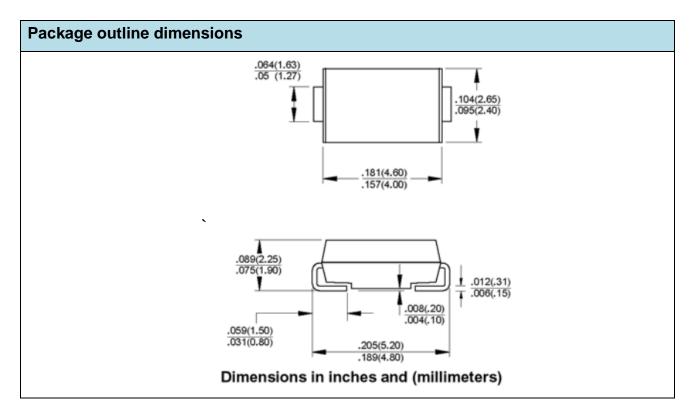
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
GR1M								





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