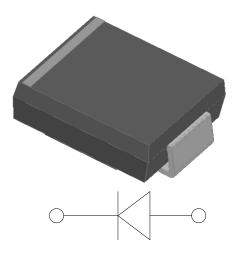
Surface Mount Fast Recovery Rectifier



Features

- High current capability
- High reliability
- High surge current capability
- Low power loss
- Solder dip 260 °C max. 10 s, per JESD 22-B106

Mechanical Data

- Package: DO-214AB (SMC) Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GR5A	GR5B	GR5D	GR5G	GR5J	GR5K	GR5M
Device marking code			GR5A	GR5B	GR5D	GR5G	GR5J	GR5K	GR5M
Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	Ι _ο	A				5.0			
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Ta=25°C	I _{FSM}	A	120						
Storage Temperature	Tstg	°C	-55 ~+150						
Junction Temperature	Tj	°C				-55 ~+150			

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GR5A	GR5B	GR5D	GR5G	GR5J	GR5K	GR5M
Maximum instantaneous forward voltage drop per diode	V _F	V	V I _{FM} =5.0A		1.3					
Maximum reverse recovery time	T _{rr}	ns	I _F =0.5A,IR=1.0A, Irr=0.25A	150				250	50	00
Maximum DC reverse current at rated DC blocking voltage			Ta=25℃	Ta=25℃ 10						
at rated DC blocking voltage per diode	IR	μA	Ta=100℃	250						
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	40						

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GR5A THRU GR5M

■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PA	RAMETER	SYMBOL	UNIT	GR5A	GR5B	GR5D	GR5G	GR5J	GR5K	GR5M
Thermal	Junction to ambient	$R_{_{ ext{ hetaJ-A}}}$	сw	47 ¹⁾						
Resistance	Junction to lead	$R_{_{ ext{ hetaJ-L}}}$	C/VV	13 ¹⁾						

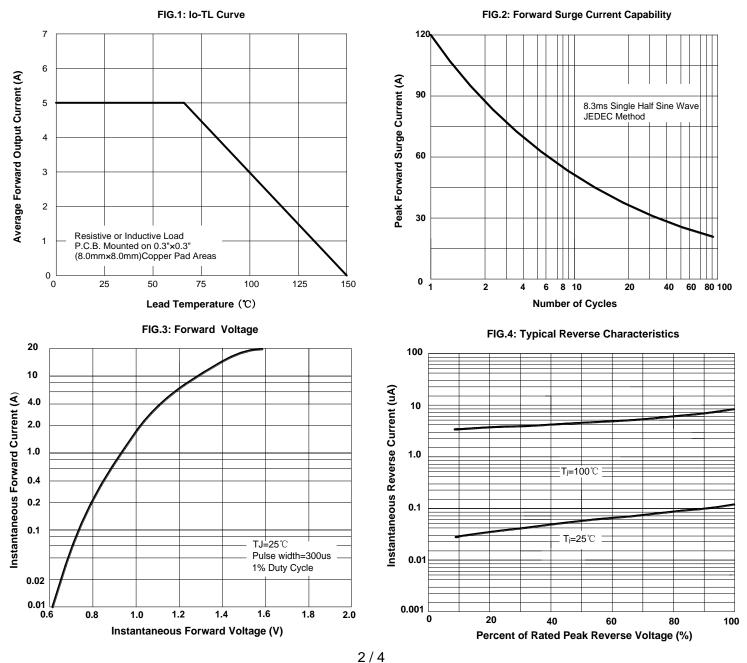
Note (1)

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GR5A~GR5M	F1	Approximate 0.254	3000	6000	42000	13" reel

Characteristics (Typical)





GR5A THRU GR5M

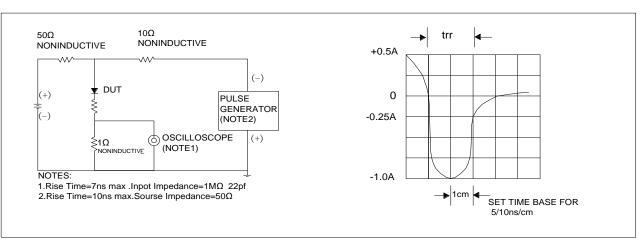
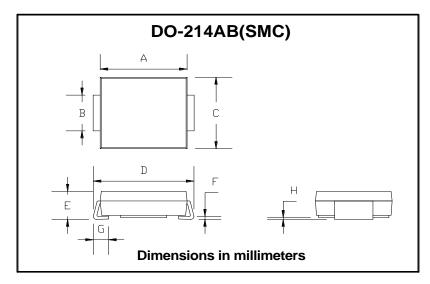


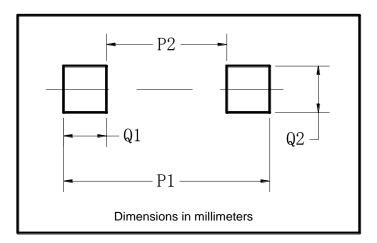
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

Outline Dimensions



DC	DO-214AB (SMC)						
Dim	Min	Max					
А	6.60	7.11					
В	2.85	3.27					
С	5.59	6.22					
D	7.75	8.13					
E	1.99	2.61					
F	0.15	0.31					
G	0.76	1.52					
Н	0.10	0.20					

Suggested pad layout



r			
DO-214AB (SMC)			
Dim	Min		
P1	9.9		
P2	3.84		
Q1	3.03		
Q2	3.82		



GR5A THRU GR5M

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