# Formosa MS

# FR201 THRU FR207

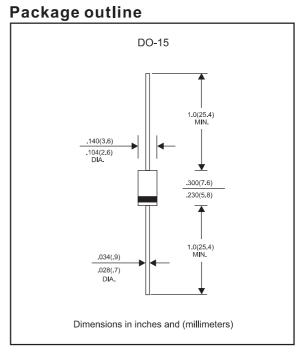
#### 2.0A Axial Leaded Fast Recovery Rectifiers - 50V-1000V

#### Features

- Axial lead type devices for through hole design.
- High current capability.
- Fast switching for high efficiency.
- High surge current capability.
- Silicon rubber coating chip junction.
- Lead-free parts meet RoHS requirments.
- Suffix "-H" indicates Halogen-free parts, ex. FR201-H.

#### **Mechanical data**

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, DO-15
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any
- Weight : Approximated 0.40 gram



#### **Maximum ratings and Electrical Characteristics** (AT T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I <sub>o</sub>			2.0	А
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I <sub>FSM</sub>			70	A
Reverse current	$V_{R} = V_{RRM} T_{J} = 25^{\circ}C$				5.0	μA
	$V_{R} = V_{RRM} T_{J} = 100^{\circ}C$	R			100	
Thermal Resistance	Junction to ambient	R <sub>eja</sub>		50		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	С		40		рF
Storage temperature		Т <sub>втб</sub>	-65		+175	°C

SYMBOLS	×1 V <sub>RRM</sub> (V)	V <sub>RMS</sub> *2 (V)	V <sup>*3</sup> (V)	V <sub>F</sub> *4 (V)	t,, <sup>*5</sup> (ns)	Operating temperature T <sub>J</sub> , (°C)	
FR201	50	35	50				
FR202	100	70	100		150		
FR203	200	140	200		150		
FR204	400	280	400	1.30		-55 to +125	
FR205	600	420	600		250		
FR206	800	560	800		500		
FR207	1000	700	1000		500		

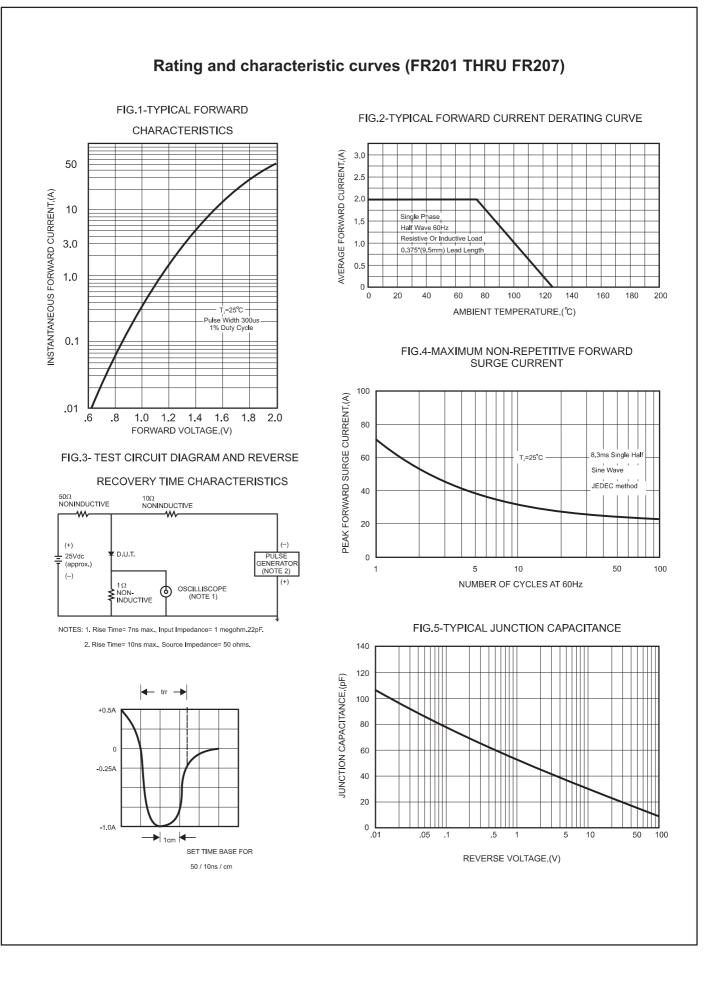
Note 1. Reverse recovery time test condition, IF=0.5A, IR=1.0A, IRR=0.25A

- \*1 Repetitive peak reverse voltage
- \*2 RMS voltage
- \*3 Continuous reverse voltage
- \*4 Maximum forward voltage@I<sub>F</sub>=2.0A
- \*5 Maximum Reverse recovery time, note 1



 Document ID
 Issued Date
 Revised Date
 Revision
 Page

 FM-3020020
 2003/03/08
 2012/05/16
 D
 3



Page 2

#### http://www.formosagr.com TEL:886-755-27188611 FAX:886-755-27188568

Formosa MS

# FR201 THRU FR207

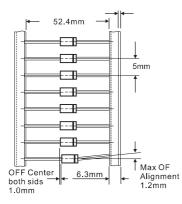
## **Pinning information**

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode	1 2	1 2

### Marking

Marking code
FR201
FR202
FR203
FR204
FR205
FR206
FR207

### Taping specifications for AXIAL devices



AMMO PACKING

DEVICE	Q'TY 1	INNER	CARTON	Q'TY 2	APPROX.
CASE	(PCS/BOX)	BOX SIZE	SIZE	(PCS/CARTON)	CROSS
TYPE		(m/m)	(m/m)		WEIGHT(kg)
DO-15	3,000	260 * 83 * 160	440 * 270 * 340	30,000	14.3



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Formosa manufacturer:

Other Similar products are found below :

D91A DA24F4100L DD89N1600K-A DD89N16K-K RL252-TP DLA11C-TR-E DSA17G 1N4005-TR BAV199-TP UFS120Je3/TR13 JANS1N6640US VS-80-1293 DD89N16K DD89N16K-A 481235F DSP10G-TR-E 067907F MS306 ND104N08K SPA2003-B-D-A01 VS-80-6193 VS-66-9903 VGF0136AB US2JFL-TP UFS105Je3/TR13 A1N5404G-G ACGRA4007-HF ACGRB207-HF RF301B2STL RF501B2STL UES1306 UES1302 BAV199E6433HTMA1 ACGRC307-HF ACEFC304-HF JANTXV1N5660A UES1106 GS2K-LTP D126A45C D251N08B SCHJ22.5K SM100 SCPA2 SCH10000 SDHD5K STTH20P035FP VS-8EWS12S-M3 VS-12FL100S10 ACGRA4001-HF MUR420GP-TP