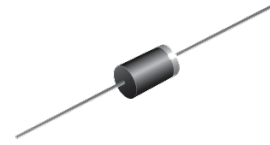


FEATURES

- | Super Small Size
- | High Reliability



DO-206



Schematic Symbol

APPLICATIONS

- | Car Ignition Systems

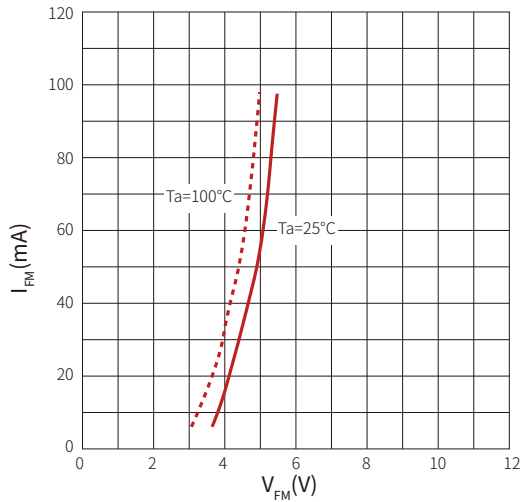
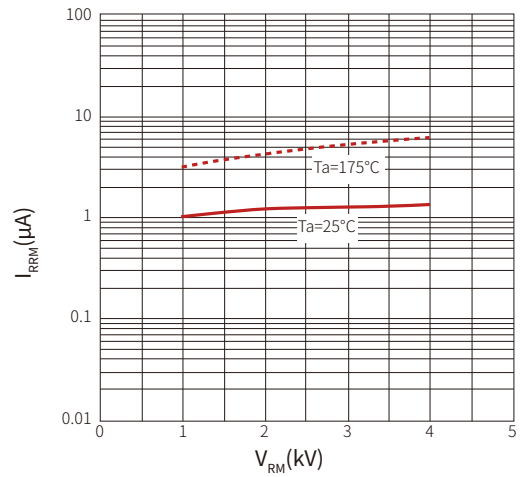
APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

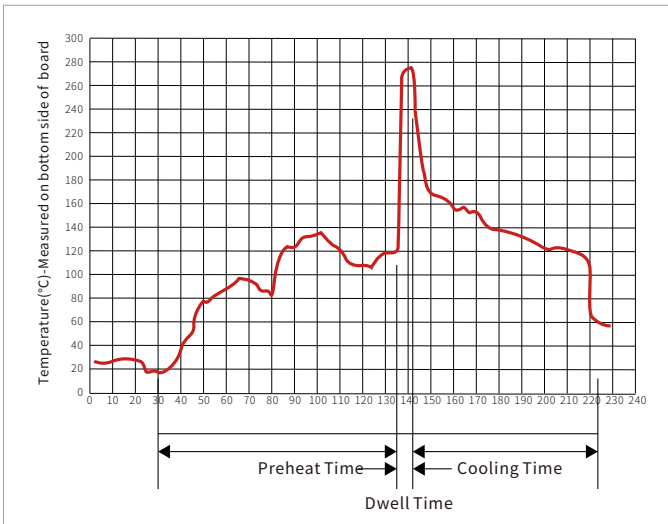
MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	2CL0503	Unit
Marking		T0503	
Repetitive Peak Reverse Voltage	V _{RRM}	3	KV
Non-Repetitive Peak Reverse Voltage	V _{RSM}	3.5	KV
Average Forward Current 60Hz half-sine wave, Resistance load, T _a =25°C	I _{F(AV)}	50	mA
Non-Repetitive Forward Surge Current 60Hz half-sine wave, 1cycle, T _a =25°C	I _{FSM}	3	A
Reverse Surge Current W _p =1ms, Rectangular-wave, One-shot, T _a =25°C	I _{RSM}	50	mA
Peak Forward Voltage I _{FM} =10mA	V _{FM}	7	V
Peak Reverse Current V _{RM} =V _{RRM}	I _{RRM}	T _a =25°C	2
		T _a =175°C	30
Avalanche Breakdown Voltage I _R =100μA	V _(BR)	≥5.5	KV
Thermal resistance T _{amb} =T _{lead} , lead length=10mm	R _{(th)J-A}	100	°C/W
Storage Temperature	T _{stg}	-65~+175	°C
Virtual junction temperature	T _(VJ)	175	°C

CHARACTERISTIC CURVES

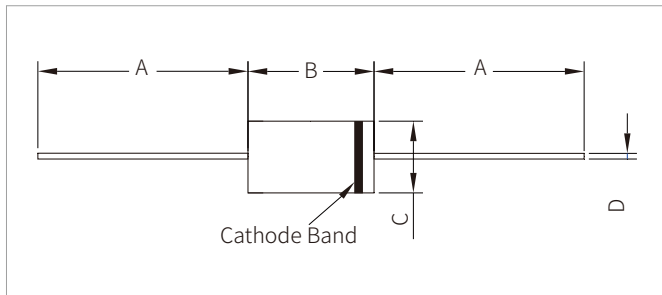
Fig.1 Forward Characteristics

Fig.2 Reverse Characteristics


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

DO-206 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.75	-	1.013	-
B	6.3	6.7	0.248	0.264
C	2.3	2.7	0.094	0.106
D	0.47	0.53	0.019	0.021

ORDERING INFORMATION

Part Number	Component Package	QTY/Box
2CL0503	DO-206	5000PCS

Headquarters

No.3387 Shendu Road
Pujiang I&E Park
Minhang Shanghai China
201000

Hotline

400-021-5756

Web

<https://www.semiware.com>

Sales Center

Tel: 86-21-3463-7458
Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001
Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654
Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172
Ext: 8868
Email: cs03@semiware.com

By QR Code

Website



Wechat

To find your local partner within Semiware's global website: www.semiware.com

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