



RD0506LS-SB

Planar Ultrafast Rectifier 5A, 600V, TO-220F-2FS

ON Semiconductor®

<http://onsemi.com>

Features

- High breakdown voltage ($V_{RRM}=600V$)
- Easy to be mounted, good heat dissipation
- Low noise at the time of reverse recovery
- High reliability
- Reverse recovery time is fast
- Halogen free compliance

Specifications

Absolute Maximum Ratings at $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		600	V
Average Output Current	I_O		5	A
Peak Output Current	I_{OP}	$PW \leq 100\mu s$, duty cycle $\leq 50\%$	20	A
Surge Forward Current	I_{FSM}	Sine wave, 10ms 1pulse	120	A
Junction Temperature	T_j		150	$^{\circ}C$
Storage Temperature	T_{stg}		-55 to +150	$^{\circ}C$

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

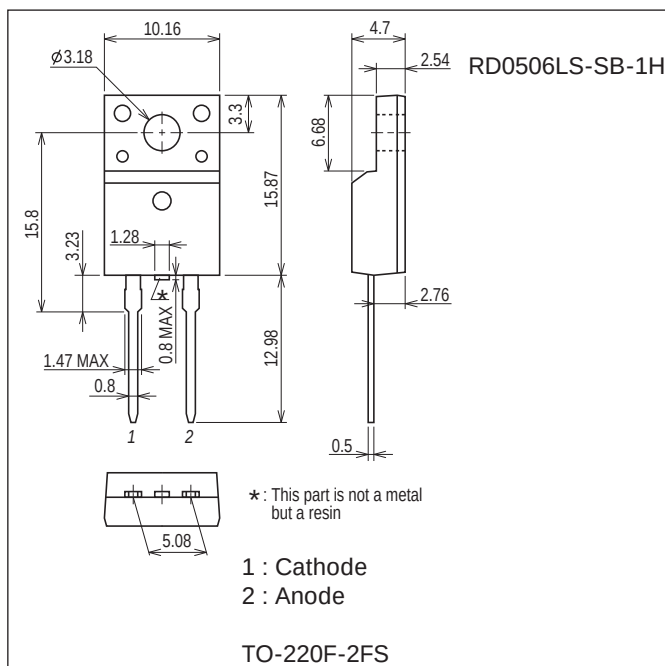
Electrical Characteristics at $T_a=25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1mA$	600			V
Forward Voltage	V_F	$I_F=5A$		1.3	1.6	V
Reverse Current	I_R	$V_R=600V$			50	μA
Reverse Recovery Time	t_{rr}	$I_F=5A$, $di/dt=100A/\mu s$			50	ns
Thermal Resistance	$R_{th(j-c)}$	Between the junction part and the case smoothing current			6.25	$^{\circ}C/W$

Package Dimensions

unit : mm (typ)

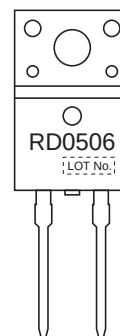
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Ordering & Package Information

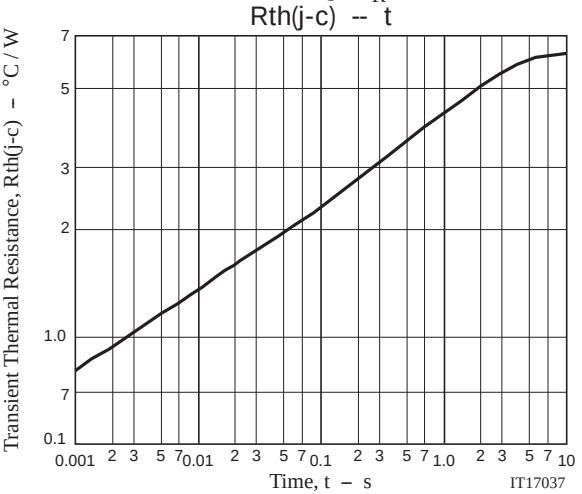
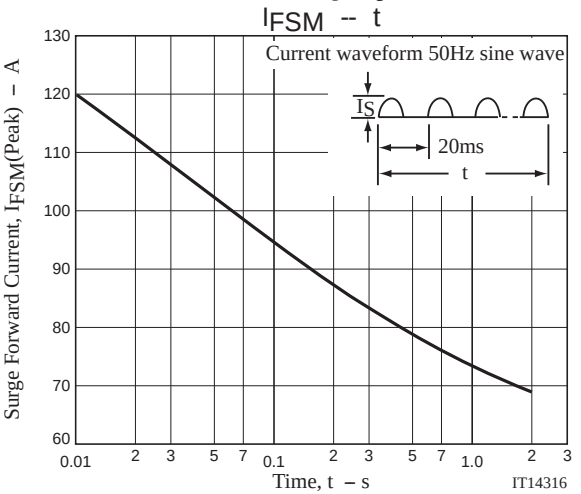
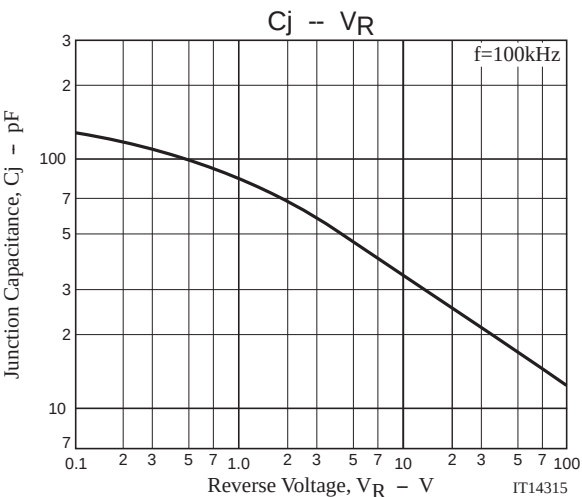
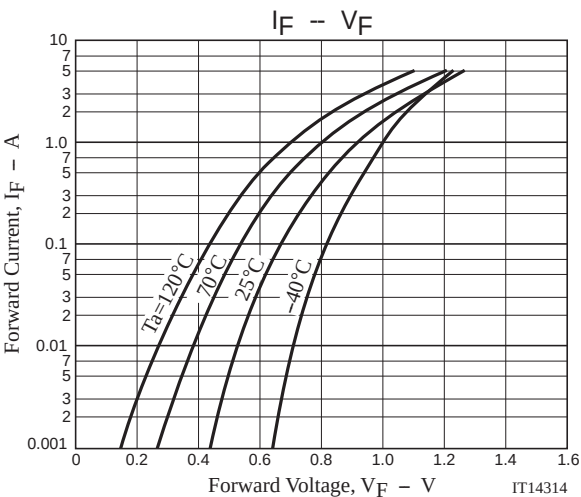
Device	Package	Shipping	memo
RD0506LS-SB-1H	TO-220F-2FS, SC-67 TO-220Full pack, 2-Lead	50pcs./ tube	Pb-Free and Halogen Free

Marking



Electrical Connection





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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Работу по проектам и поставку образцов.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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