

TOSHIBA Rectifier Silicon Diffused Type

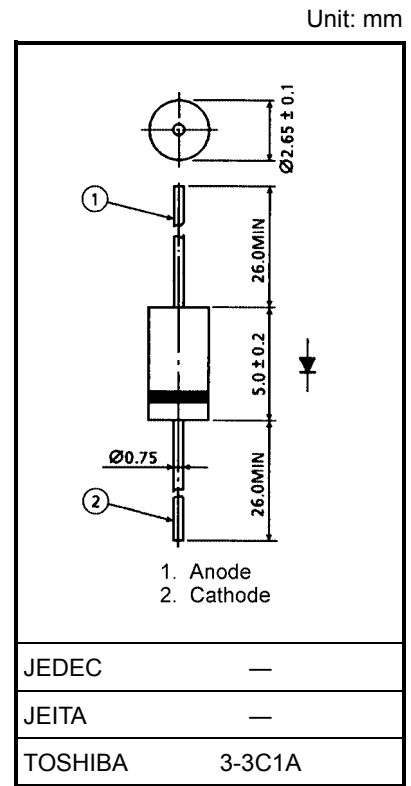
S5277B, S5277G, S5277J, S5277N

General Purposer Rectifier Applications

- Average Forward Current: $I_F (AV) = 1.0 \text{ A}$
- Repetitive Peak Reverse Voltage: $V_{RRM} = 100\sim 1000 \text{ V}$

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	S5277B	100	V
	S5277G	400	
	S5277J	600	
	S5277N	1000	
Average forward current	$I_F (AV)$	1.0	A
Peak one cycle surge forward current (non repetitive)	S5277B	50 (50 Hz)	A
	S5277G	55 (60 Hz)	
	S5277J	30 (50 Hz)	
	S5277N	33 (60 Hz)	
Junction temperature	T_j	-40~150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-40~150	$^\circ\text{C}$

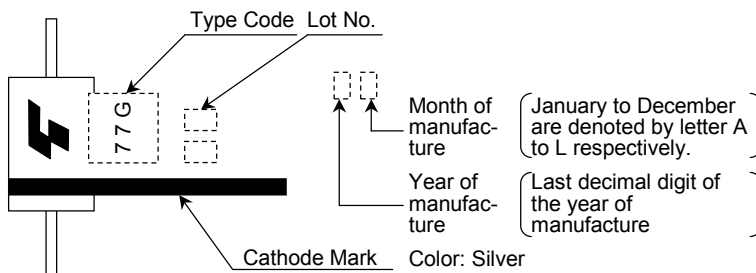


Weight: 0.3 g (typ.)

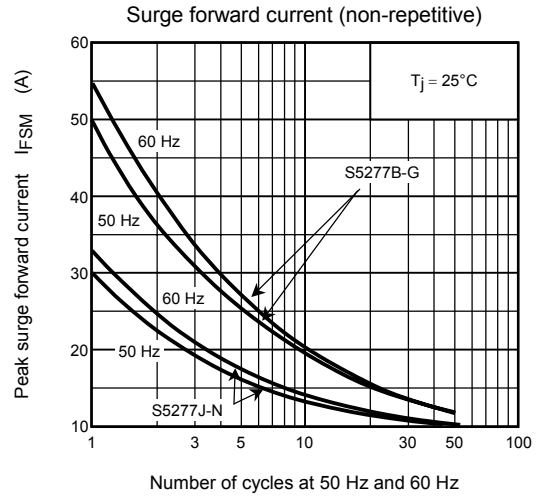
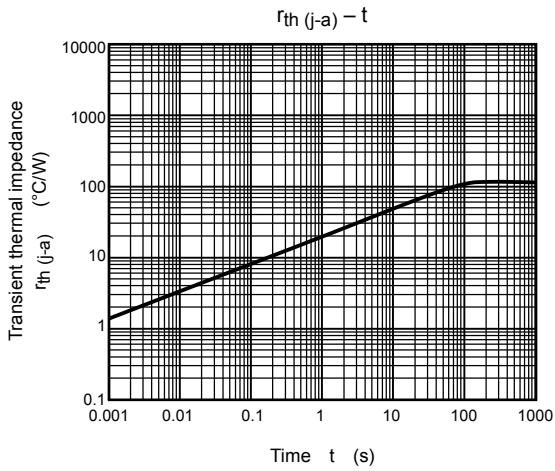
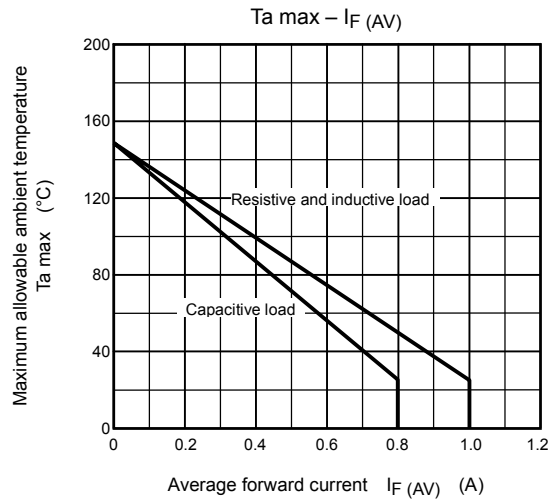
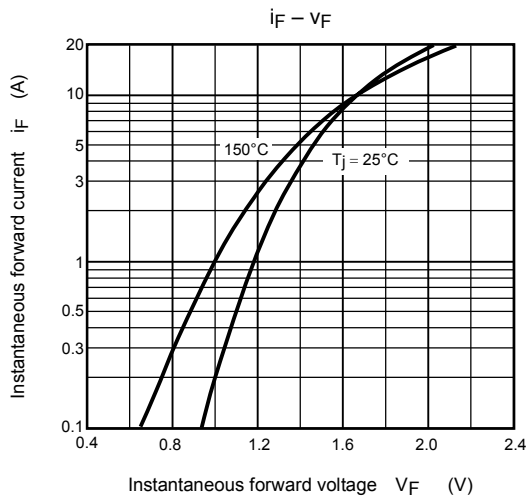
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	$I_{FM} = 1.0 \text{ A}$	—	—	1.2	V
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Thermal resistance (junction to ambient)	$R_{th (j-a)}$	DC	—	—	120	$^\circ\text{C/W}$

Marking



Code	Type
77B	S5277B
77G	S5277G
77J	S5277J
77N	S5277N



RESTRICTIONS ON PRODUCT USE

000707EAA

- TOSHIBA is continually working to improve the quality and reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to comply with the standards of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such TOSHIBA products could cause loss of human life, bodily injury or damage to property.
In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
- The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
- The information contained herein is subject to change without notice.