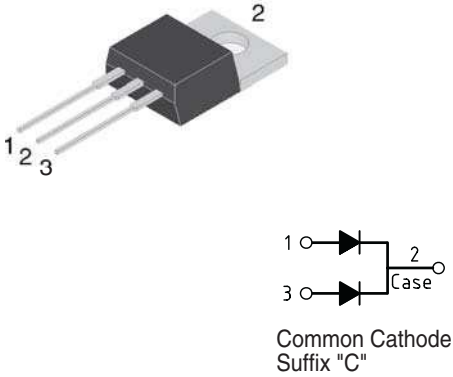


10 Amp. Glass Passivated Rectifier

<p>TO-220AB</p>  <p>Common Cathode Suffix "C"</p>	<p>Voltage 600 to 1000 V</p>	<p>Current 10 A</p>
	<ul style="list-style-type: none"> • Glass Passivated Junction • High current capability • The plastic material U/L recognition 94 V-0 • Terminals: Leads solderable per MIL-STD202 • Low forward Voltage drop 	

Absolute Maximum Ratings, according to IEC publication No. 134

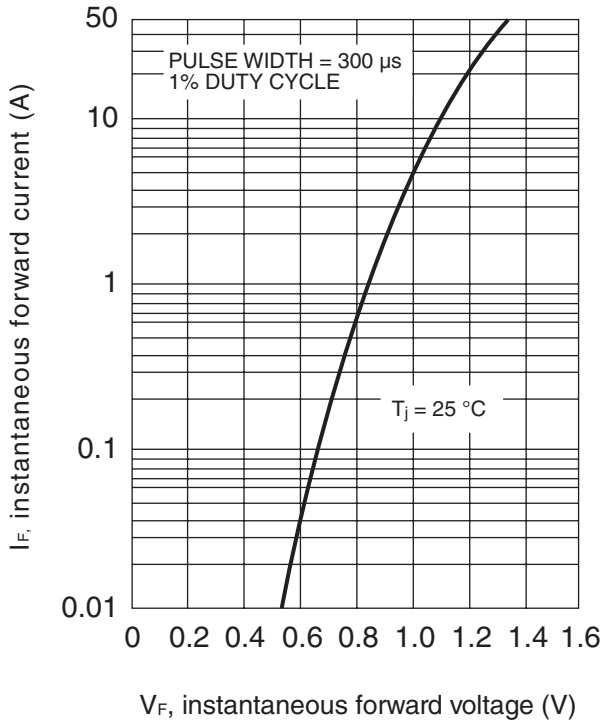
		GP1005	GP1007
V_{RRM}	Peak recurrent reverse voltage (V)	600	1000
V_{RMS}	Maximum RMS voltage (V)	420	700
V_{DC}	Maximum DC blocking voltage (V)	600	1000
$I_{F(AV)}$	Maximum average Forward current at $T_c = 105\text{ °C}$ (both diodes conducting)	10 A	
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A	
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	30 pF	
T_j	Operating temperature range	- 65 to + 150 °C	
T_{stg}	Storage temperature range	- 65 to + 150 °C	

Electrical Characteristics

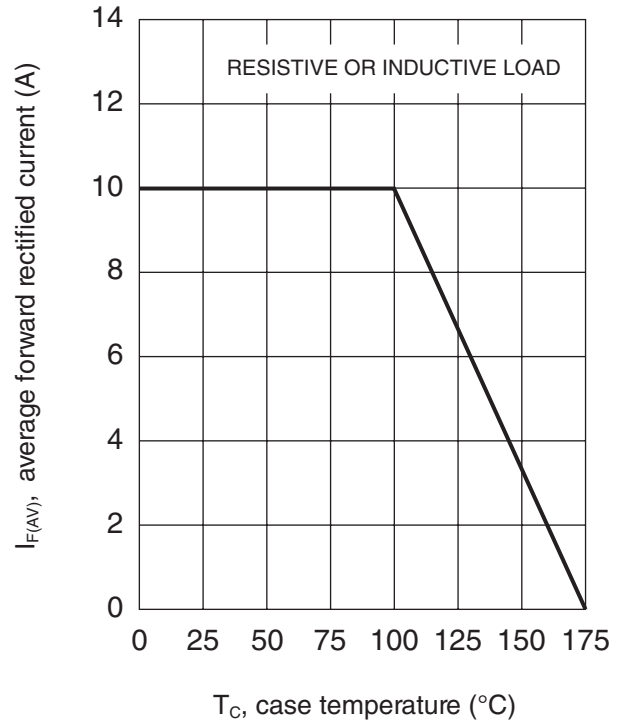
		GP1005	GP1007
V_F	Max. forward voltage drop at $I_F = 5\text{ A}$ $T_j = 25\text{ °C}$	1.1 V	
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$ $T_j = 25\text{ °C}$	5 μA	
R_{thj-C}	Typical Thermal Resistance	3.0 °C/W	

10 Amp. Glass Passivated Rectifier

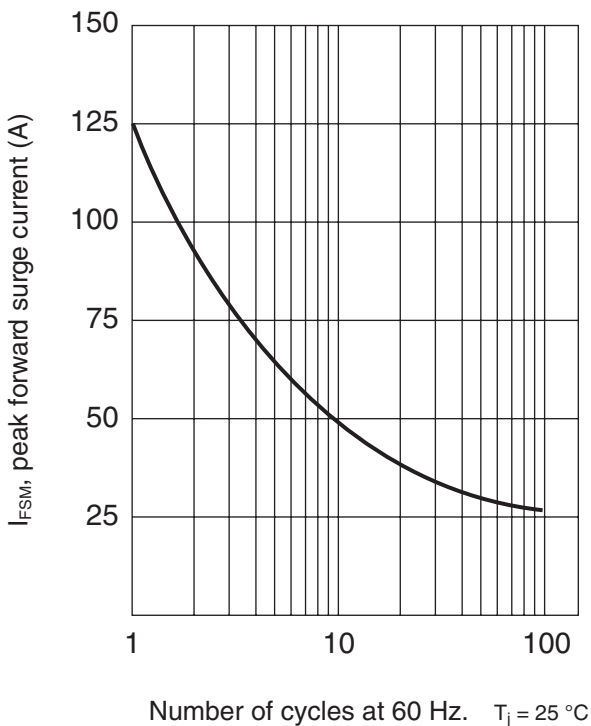
TYPICAL FORWARD CHARACTERISTIC



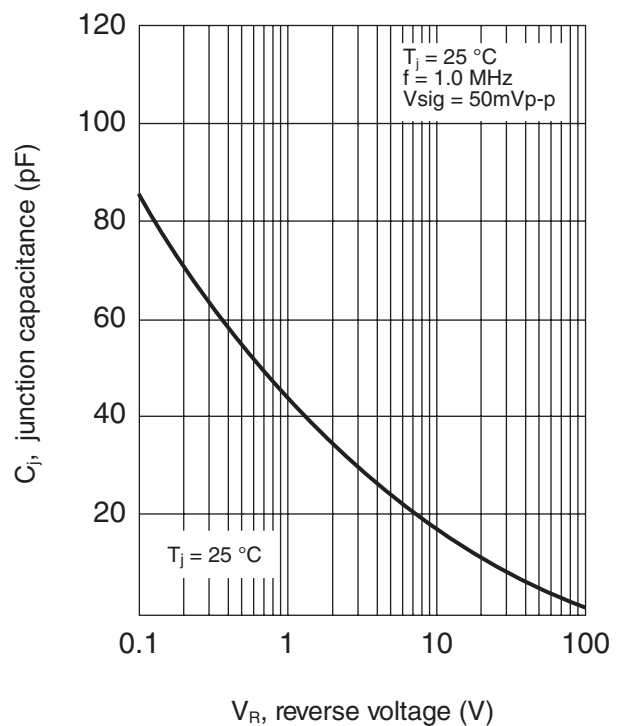
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



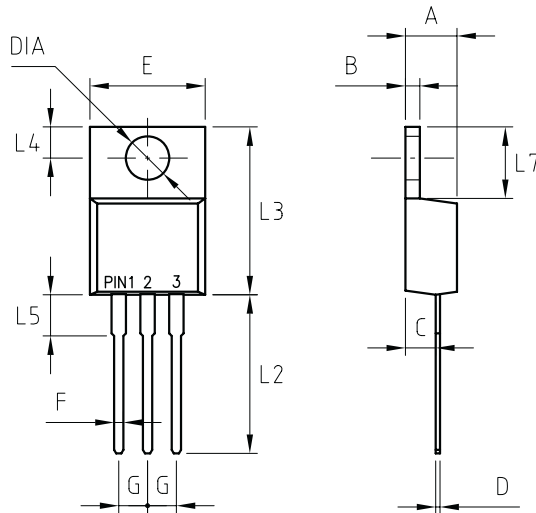
TYPICAL JUNCTION CAPACITANCE



10 Amp. Glass Passivated Rectifier

PACKAGE MECHANICAL DATA

TO-220AB



REF.	DIMENSIONS	
	Milimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	--	10.5
F	0.68	0.94
G	2.41	2.67
L2	13.46	14.22
L3	14.90	15.10
L4	2.62	2.87
L5	3.56	4.06
L7	5.84	6.86
DIA	3.91	3.74