



<b>FAST RECOVERY RECTIFIERS</b> <b>GLASS PASSIVATION JUNCTION</b>	<b>REVERSE VOLTAGE - 50 to 1000 Volts</b> <b>FORWARD CURRENT - 1.0 Amperes</b>
--	---

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Fast switching for high efficiency</li> <li>• Low cost</li> <li>• Glass passivation junction</li> <li>• Low reverse leakage current</li> <li>• Low forward voltage drop</li> <li>• High current capability</li> <li>• The plastic material carries UL recognition 94V-0</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case : JEDEC DO-41 molded plastic</li> <li>• Polarity : Color band denotes cathode</li> <li>• Weight : 0.012 ounces, 0.34 grams</li> <li>• Mounting position : Any</li> </ul>	<p><b>DO-41</b></p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th colspan="3">DO-41</th> </tr> <tr> <th>Dim.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>25.4</td> <td>-</td> </tr> <tr> <td>B</td> <td>4.20</td> <td>5.20</td> </tr> <tr> <td>C</td> <td>0.70 <math>\varnothing</math></td> <td>0.90 <math>\varnothing</math></td> </tr> <tr> <td>D</td> <td>2.00 <math>\varnothing</math></td> <td>2.70 <math>\varnothing</math></td> </tr> </tbody> </table> <p>All Dimensions in millimeter</p>	DO-41			Dim.	Min.	Max.	A	25.4	-	B	4.20	5.20	C	0.70 $\varnothing$	0.90 $\varnothing$	D	2.00 $\varnothing$	2.70 $\varnothing$
DO-41																			
Dim.	Min.	Max.																	
A	25.4	-																	
B	4.20	5.20																	
C	0.70 $\varnothing$	0.90 $\varnothing$																	
D	2.00 $\varnothing$	2.70 $\varnothing$																	

<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p> <p>Ratings at 25°C ambient temperature unless otherwise specified.          Single phase, half wave, 60Hz, resistive or inductive load.          For capacitive load, derate current by 20%</p>
--

PARAMETER	SYMBOL	PR 1001G	PR 1002G	PR 1003G	PR 1004G	PR 1005G	PR 1006G	PR 1007G	UNIT
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF	1.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	30.0							A
Maximum instantaneous I F=1A@25	VF	1.30							V
Maximum DC Reverse Current @TA=25 at Rated DC Blocking Voltage @TA=100	IR	5 100							uA
Maximum Reverse Recovery Time	Trr	150			250		500		nS
Typical Junction Capacitance	CJ	15							pF
Operating Temperature Range	TJ	-55 to +150							
Storage Temperature Range	TSTG	-55 to +150							



FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

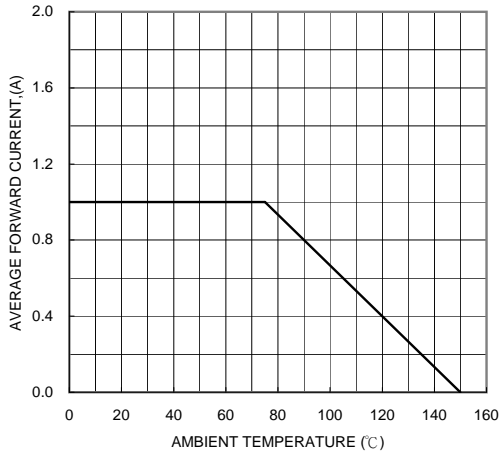


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

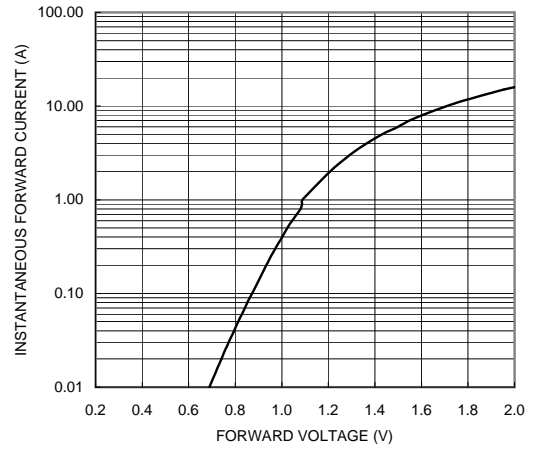


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

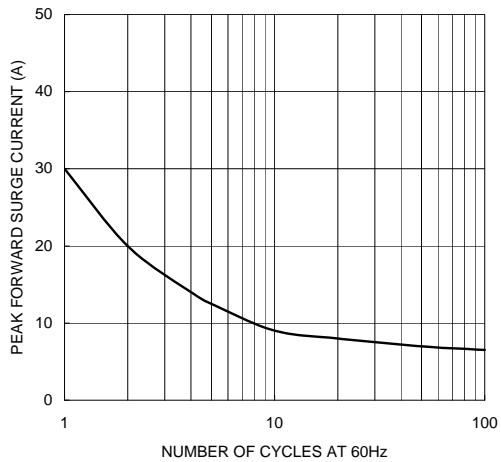


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

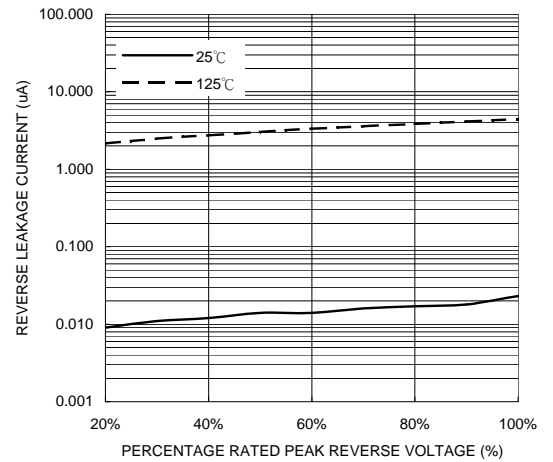


FIG. 5-TYPICAL JUNCTION CAPACITANCE

