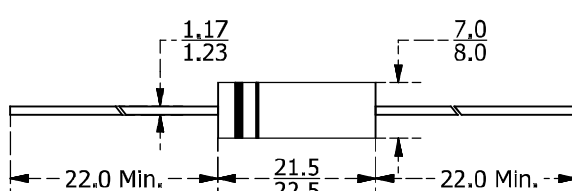
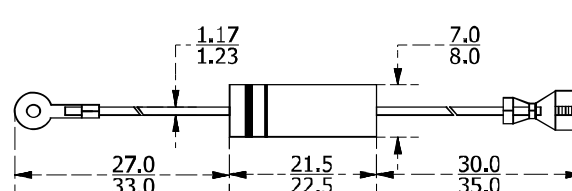


<p><u>2CL3520HR (Standard type)</u></p>  <p><u>2CL3520HRT (Terminal type)</u></p>  <p><u>Dimensions in Millimeters</u> Suffix "T" indicates as terminal type</p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>● <math>I_{F(AV)}</math> 350mA</li> <li>● <math>V_{RRM}</math> 20KV</li> <li>● High reliability</li> </ul> <p><b>Applications</b></p> <p>Rectification for high voltage power supply of magnetron in microwave oven and others</p> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>● Case: Molded plastic body</li> <li>● Epoxy meets UL 94V-0 flammability rating</li> <li>● Terminals: Pure time plated leads, solderable per J-STD-002 and JESD22-B102, meet JESD201 class 1A whisker test.</li> <li>● Polarity: Color band denotes cathode end</li> </ul>
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Maximum rating ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)				
Parameter	Symbol	2CL3520HR(T)	Unit	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	KV	
Maximum RMS voltage	$V_{RMS}$	14	KV	
Average forward current	60Hz half sine wave, R-load, $T_a \leq 60^{\circ}\text{C}$	$I_{F(AV)}$	350	mA
Peak forward surge current	60Hz half sine wave, 1 cycle	$I_{FSM}$	30	A
Reverse surge current		$I_{RSM}$	100	mA
Maximum instantaneous forward voltage at $I_F=350\text{mA}$		$V_{FM}$	12	V
Maximum reverse current, $V_{RM}=V_{RRM}$		$I_{RRM}$	5	$\mu\text{A}$
Reverse recovery time		$t_{rr}$	150	nS
Virtual junction temperature		$T_{(vj)}$	-40 ~ +130	$^{\circ}\text{C}$
Storage temperature range		$T_{stg}$	-40 ~ +130	$^{\circ}\text{C}$

Notes: Cooling Requirement – Cathode terminal is fastened to radiating fin that size is more than 50mm x 50mm x 50mm  
Wind-cooled velocity is more than 0.5m/s

Ratings and Characteristics Curves ( $T_a=25^\circ\text{C}$  unless otherwise noted)

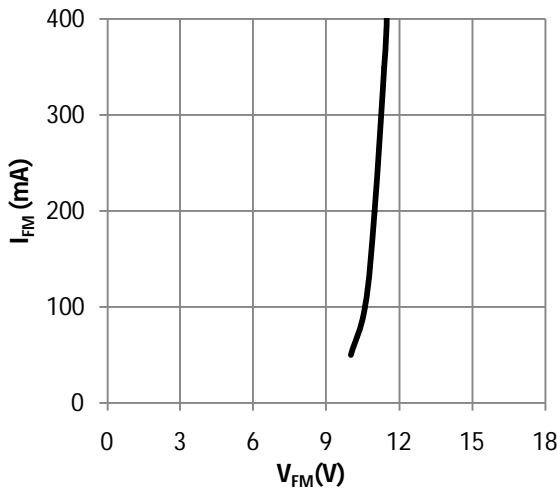


Figure 1. Forward Characteristics

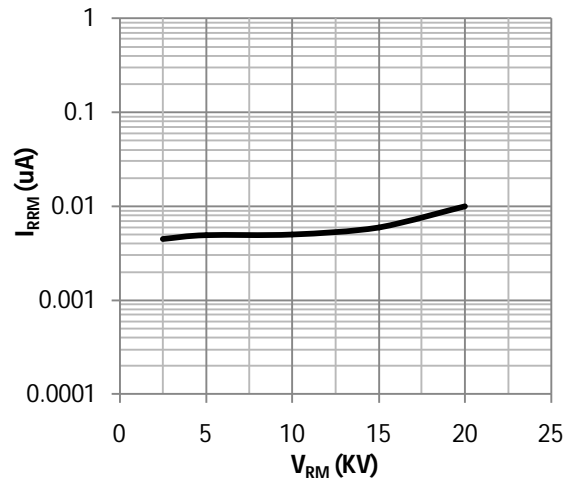


Figure 2. Reverse Characteristics

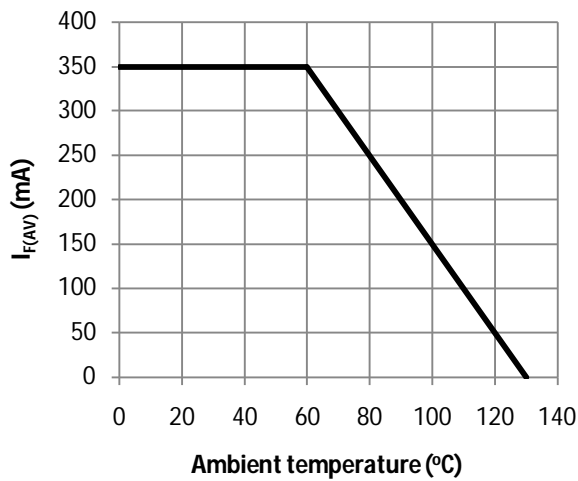
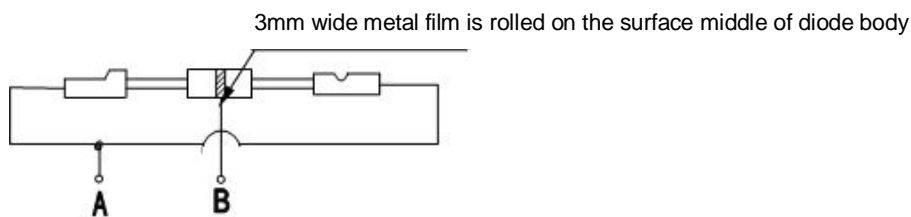


Figure 3. Forward Current Derating Curve

### Safety Test



1. Insulation Resistance Test: 500V DC voltage is added between A and B. The measurement by insulation resistance meter is big than 1000M $\Omega$
2. Resistance To Voltage Strength Test: 15KV half-sine wave voltage is added between A and B for one minute and no breakdown or arc in insulation oil

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