

## DUAL SCHOTTKY POWER RECTIFIER

Qualified per MIL-PRF-19500/608

### DEVICES

**1N6660      1N6660R**  
**1N6660CCT1    1N6660CAT1    1N6660DT1**

**LEVELS**  
**JAN**  
**JANTX**  
**JANTXV**

### ABSOLUTE MAXIMUM RATINGS ( $T_C = +25^\circ\text{C}$ unless otherwise noted)(Per Diode)

Parameters / Test Conditions	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RWM}$	45	V
Working Peak Reverse Voltage	$V_{RRM}$	45	V
DC Blocking Voltage	$V_R$	45	V
Average Forward Current, $25^\circ\text{C}$	$I_o$	15 Note 1	Apk
Peak Surge Forward Current @ $t_p = 8.3\text{ms}$ , half sinewave, $I_o = 0$ ; $V_{RM} = 0$	$I_{FSM}$	300	Apk
Thermal Resistance, Junction to Case	$R_{\theta jc}$	1.65	$^\circ\text{C}/\text{W}$
Thermal Resistance, Junction to Ambient	$R_{\theta ja}$	40	$^\circ\text{C}/\text{W}$
Operating Junction Temperature	$T_j$	$-65^\circ\text{C}$ to $150^\circ\text{C}$	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	$-65^\circ\text{C}$ to $150^\circ\text{C}$	$^\circ\text{C}$

#### Note:

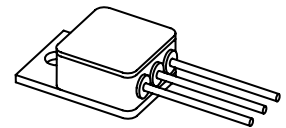
1. Derate linearly @  $300\text{mA}/^\circ\text{C}$  from  $T_j = T_c = +100^\circ\text{C}$  to  $150^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A = +25^\circ\text{C}$ , unless otherwise noted)

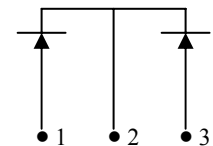
Parameters / Test Conditions	Symbol	Min.	Max.	Unit
<b>OFF CHARACTERISTICS</b>				
Forward Voltage $I_F = 5\text{A}$ , $T_j = 25^\circ\text{C}^*$ $I_F = 15\text{A}$ , $T_j = 25^\circ\text{C}^*$ $I_F = 30\text{A}$ , $T_j = 25^\circ\text{C}^*$ $I_F = 15\text{A}$ , $T_j = -55^\circ\text{C}^*$	$V_F$		0.55 0.75 1.0 0.80	V
Reverse Current $V_R = 45\text{V}$ , $T_j = 25^\circ\text{C}$ $V_R = 45\text{V}$ , $T_j = 125^\circ\text{C}$	$I_R$		1.0 40	mA
Junction Capacitance $V_R = 5\text{V}$ $f = 1\text{MHz}$	$C_j$		2000	pF

\* Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

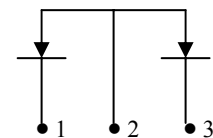
**30 Amp / 45 Volts**  
**COMMON CATHODE**  
**OR**  
**COMMON ANODE**  
**SCHOTTKY RECTIFIER**



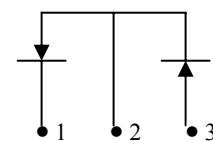
**TO-254**



**1N6660 & 1N6660CCT1**

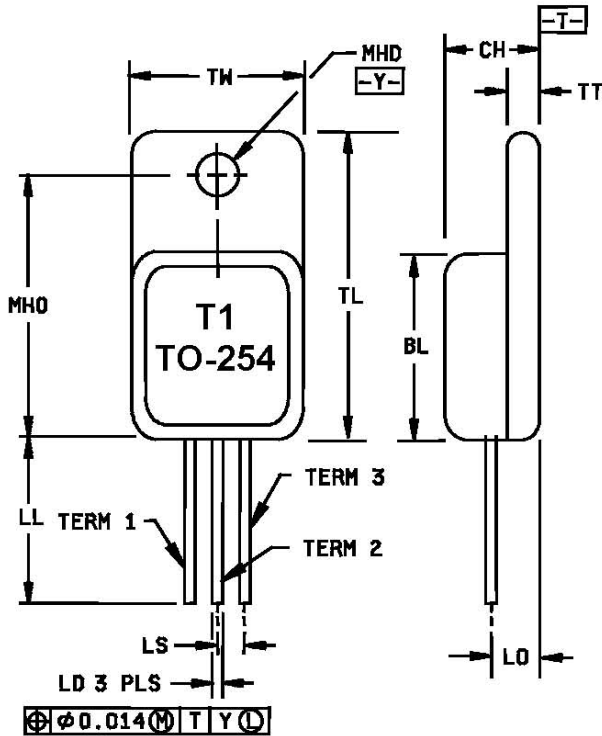


**1N6660R & 1N6660CAT1**



**1N6660DT1**

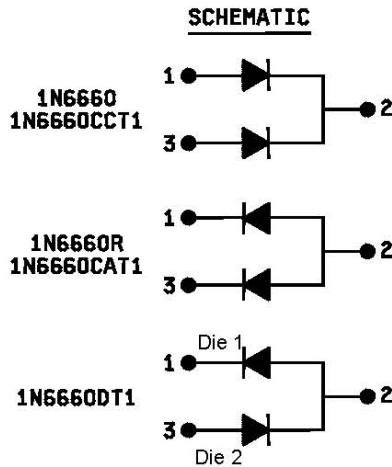
## PACKAGE DIMENSIONS



Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
BL	.535	.545	13.59	13.84
CH	.249	.260	6.32	6.60
LD	.035	.045	0.89	1.14
LL	.510	.570	12.95	14.48
LO	.150 BSC		3.81 BSC	
LS	.150 BSC		3.81 BSC	
MHD	.139	.149	3.53	3.78
MHO	.665	.685	16.89	17.40
TL	.790	.800	20.07	20.32
TT	.040	.050	1.02	1.27
TW	.535	.545	13.59	13.84

**NOTES:**

1. Dimensions are in inches
2. Millimeters are given for general information only.
3. All terminals are isolated from case.
4. In accordance with ASME Y14.5M, diameters are equivalent to  $\Phi$ x symbology.



Types 1N6660, 1N6660CCT1, 1N6660R, 1N6660CAT1, and 1N6660DT1

**FIGURE 1.** Physical dimensions and configuration (TO-254AA).