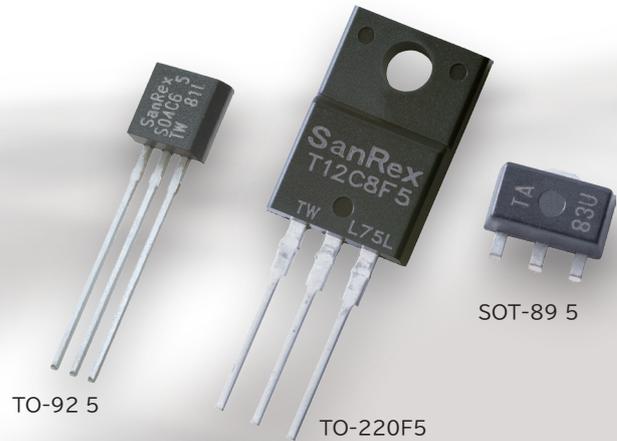


Triac / Thyristor

TMG/SMG 5 Series

Applications

- ▶ Fan Heater
- ▶ Bidet Toilet
- ▶ Washing Machine
- ▶ Rice Cooker



Features

- Triac-Available up to 800V
- Low Loss $V_T \text{ max} = 1.4V$
- $T_j \text{ max} = 150^\circ C$ (Q series)
- Low loss (Low V_T) by optimisation of silicon wafer and semiconductor process while maintaining high V_{DRM} .

TO-92 Package Triac/Thyristor Line up (UL File No.76102)

	Type	V_{DRM} V	I_T A	V_{TM} V	T_j $^\circ C$	IGT mA		Features
						I+I-III-	III+	
Triac	TMG1C60/80 5	600/800	1(RMS)	1.6	125	5	10	Sensitive Gate
	TMG1D60 5	600	1(RMS)	1.75	125	20	—	Standard
Thyristor	SMG04/05C60 5	600	0.4/0.5(AV)	1.2	125	0.1		Sensitive Gate

TO-220F Package Triac/Thyristor Line up (UL File No.76102)

$T_j = 150^\circ C$

	Type	V_{DRM} V	I_T (RMS) A	V_{TM} V	T_j $^\circ C$	IGT mA		Features
						I+I-III-	III+	
Triac	TMG2DQ60F5	600	2	1.6	150	5	—	Sensitive Gate/ $T_j = 150^\circ C$
	TMG2CQ60F5	600	2	1.6	150	15	—	$T_j = 150^\circ C$
	TMG3/5CQ60F5	600	3/5	1.4	150	20	—	
	TMG8/10/12/16/20CQ60F5	600	8/10/12/16/20	1.4	150	30	—	

$V_{DRM} = 800V$

	Type	V_{DRM} V	I_T (RMS) A	V_{TM} V	T_j $^\circ C$	IGT mA		Features
						I+I-III-	III+	
Triac	TMG2C80F5	800	2	1.6	125	15	—	$V_{DRM} = 800V$
	TMG3C80F5	800	3	1.4	125	15	—	
	TMG5C80F5	800	5	1.4	125	20	—	
	TMG8/10/12/16/20C80F5	800	8/10/12/16/20	1.4	125	30	—	

Sensitive Gate

	Type	V_{DRM} V	I_T (RMS) A	V_{TM} V	T_j $^\circ C$	IGT mA		Features
						I+I-III-	III+	
Triac	TMG2D60F5	600	2	1.6	125	5	10	Sensitive Gate
	TMG3D60F5	600	3	1.4	125	5	10	
	TMG5/8/10/12/16/20D60F5	600	5/8/10/12/16/20	1.4	125	10	—	

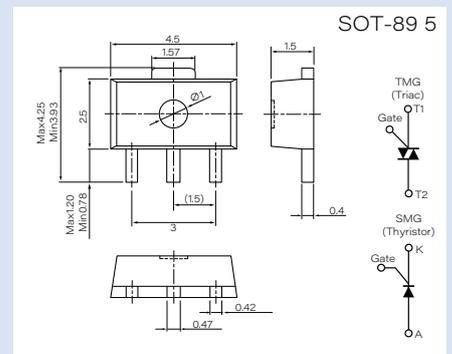
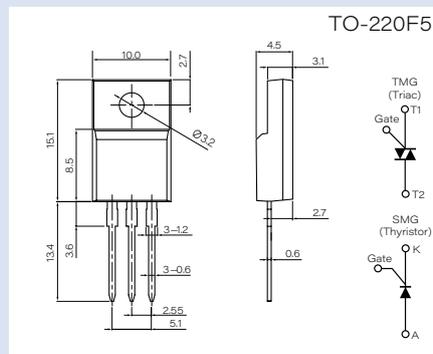
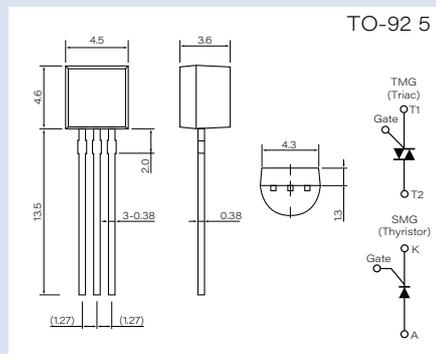
Standard

	Type	V_{DRM} V	I_T (AV) A	V_{TM} V	T_j $^\circ C$	IGT mA	Features
Thyristor	SMG5/8C60F5	600	5/8	1.5	125	10	Low Loss
	SMG12/16C60F5	600	12/16	1.5	125	30	

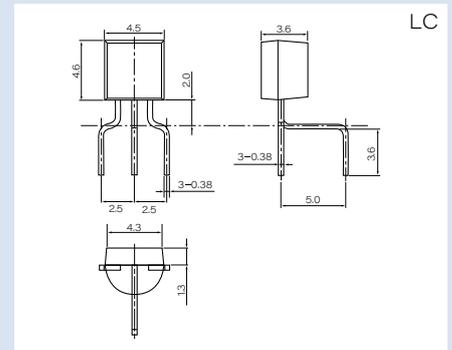
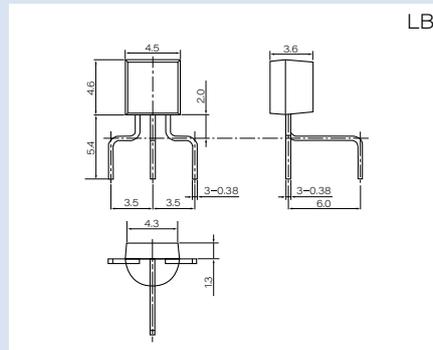
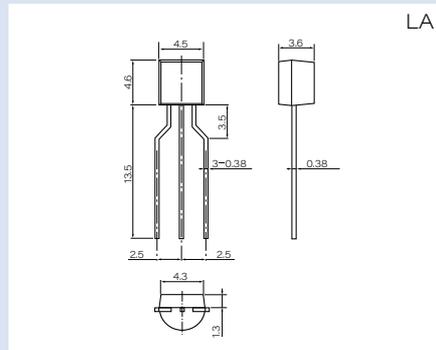
SOT-89 Package Triac/Thyristor Line up

	Type	V_{DRM} V	I_T A	V_{TM} V	T_j $^\circ C$	IGT mA		Features
						I+I-III-	III+	
Triac	TMG1C60A5	600	1(RMS)	1.6	125	5	10	Sensitive Gate
Thyristor	SMG08C60A5	600	0.8(AV)	1.5	125	0.1		Sensitive Gate

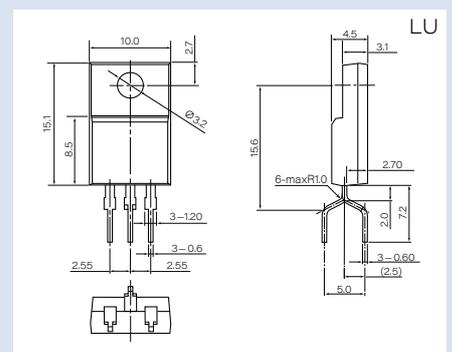
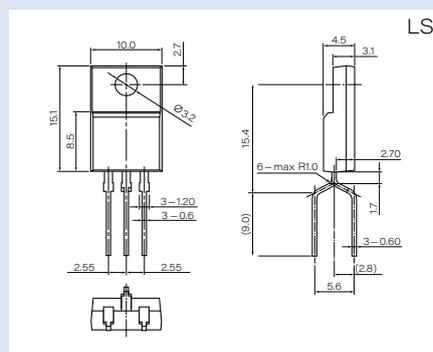
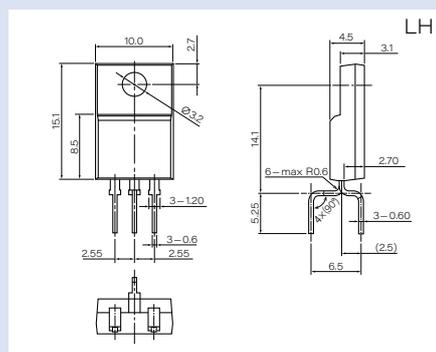
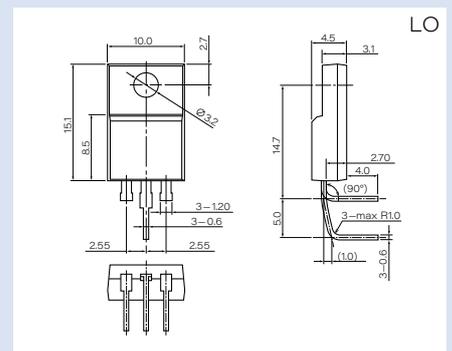
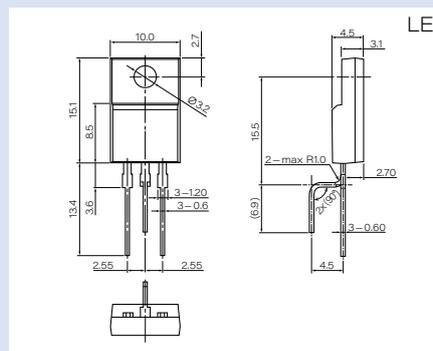
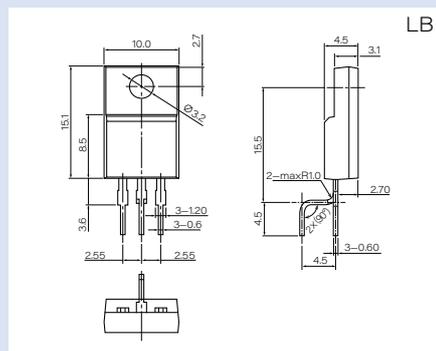
OUTLINE DRAWING



TO-92 5 LEAD FORMING



TO-220F5 LEAD FORMING



Please refer specification for details

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