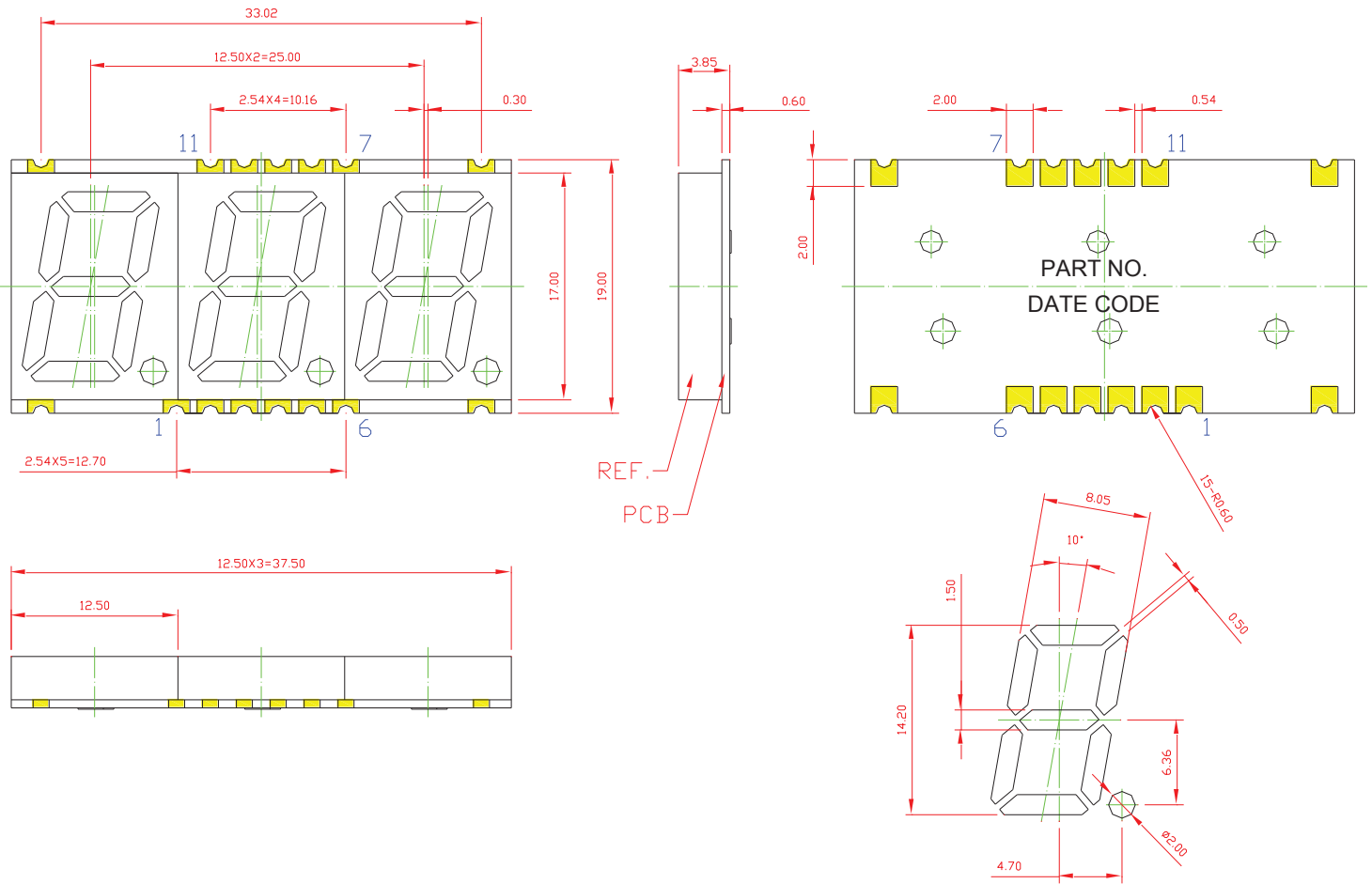


SPECIFICATIONS
SDTC56R2W
MECHANICAL DIMENSIONS

Notes:

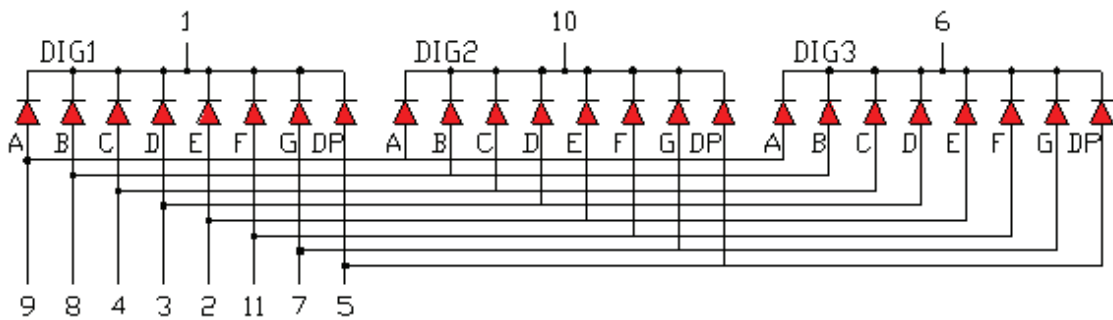
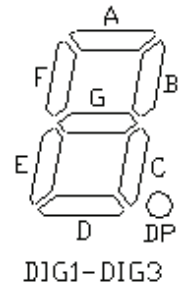
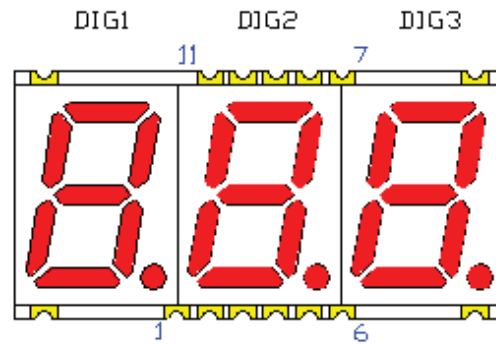
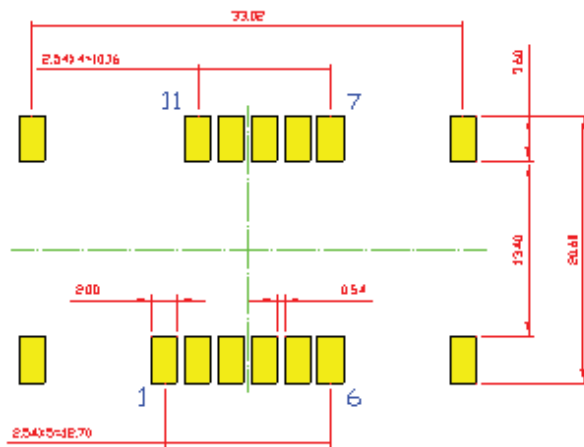
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($0.01''$) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Description
SDTC56R2W	InGaAlP	Red	White Segment	Common Cathode



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SPECIFICATIONS
TYPICAL INTERNAL EQUIVALENT CIRCUIT

 Recommended
Soldering Pattern

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol		Unit
Power Dissipation per Dice	PAD	70	mW
Derating Liner from 25°C per Dice	-	0.28	mA / °C
Continuous Forward Current per Dice	IAF	25	mA
Peak Current per Dice (duty cycle 1/10, 1kHz)	IPF	90	mA
Reverse Voltage per Dice	VR	5	°C
Operating Temperature	TOPR	-40~+105	°C
Storage Temperature	TSTG	-40~+105	°C

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Characteristic	Symbol	Condition	Value			Unit
			Min.	Type.	Max.	
Forward Voltage per Dice	VF	IF =20mA		2.0	2.6	V
Reverse Current per Dice	IR	VR = 5V		-	10	µA
Peak Wavelength per Dice	λP	IF =20mA	-	632	-	nm
Dominant Wavelength per Dice	λD	IF =20mA	-	625	-	nm
Luminous Intensity	IV	IF =20mA	-	25	-	mcd
Spectral Radiation Bandwidth per Dice	Δλ	IF =20mA	-	20		nm

*Tolerance of viewing angle: -10 / +5 deg.



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OPTICAL CHARACTERISTIC CURVES

Typical Electro-optical Characteristic Curves (25 °C Free Air Temperature Unless Otherwise Specified)

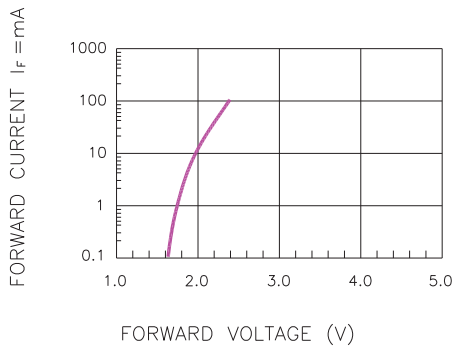


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

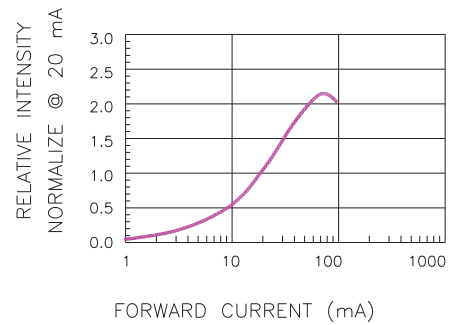


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

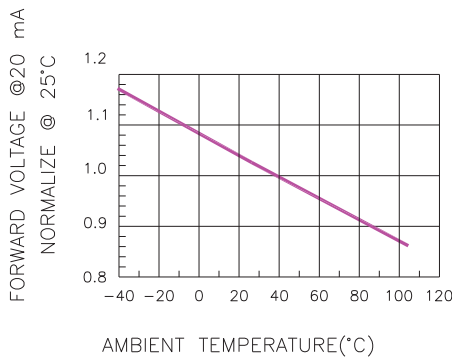


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

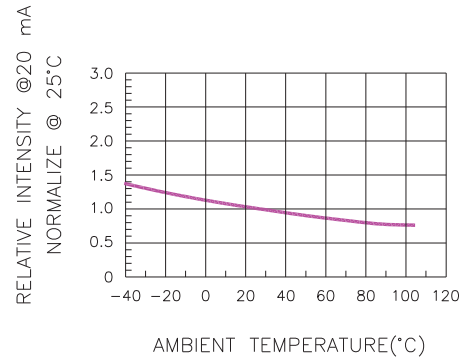


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

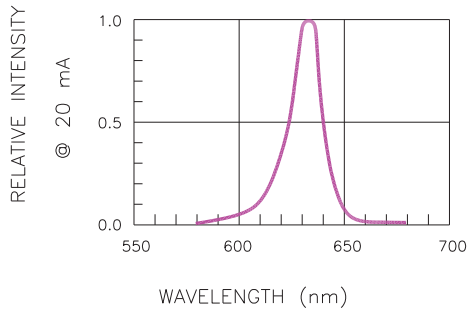


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

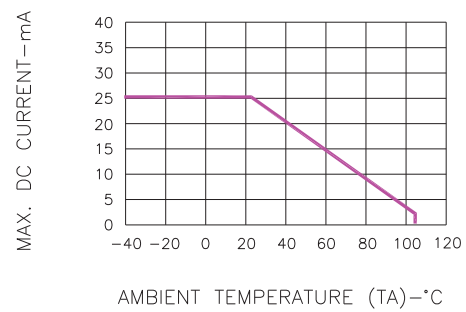


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

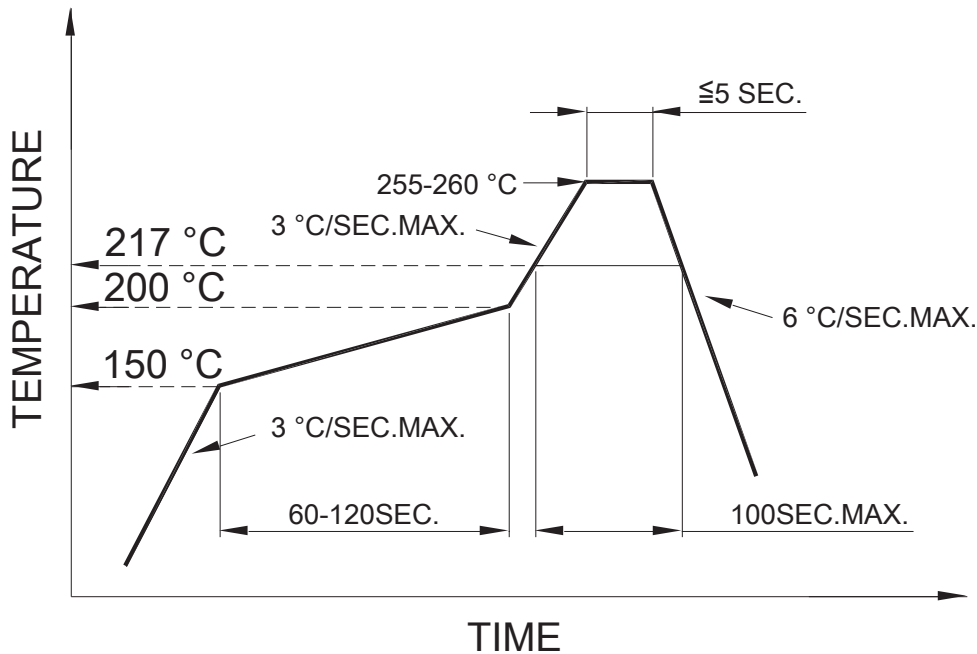


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SOLDERING CONDITIONS – SMD TYPE LED
● RECOMMEND SOLDERING PROFILE

SMT Soldering Profile

Pb free reflow soldering Profile


● SOLDERING IRON

Basic specification : ≤ 4 seconds when 260°C, If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

● REWORK

Customer must finish rework within ≤ 3 sec under 350°C.



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