

/ Descriptions

WR0553I ММ Ё SQS æ Ñ ç s ll 1 Silicon PNP transistor in a TO-220F Plastic Package.

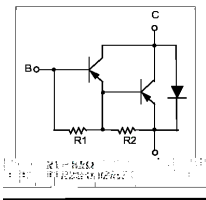
/ Features

лъ WLS455I Ы ´
Complement to TIP122F.

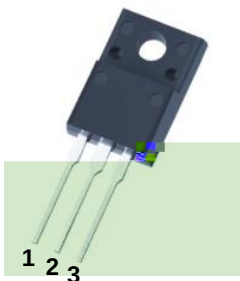
/ Applications

Љ ã Æ I ' ı ó Æ Ñ ð º
Medium power linear switching applications.

/ Equivalent Circuit



/ Pinning



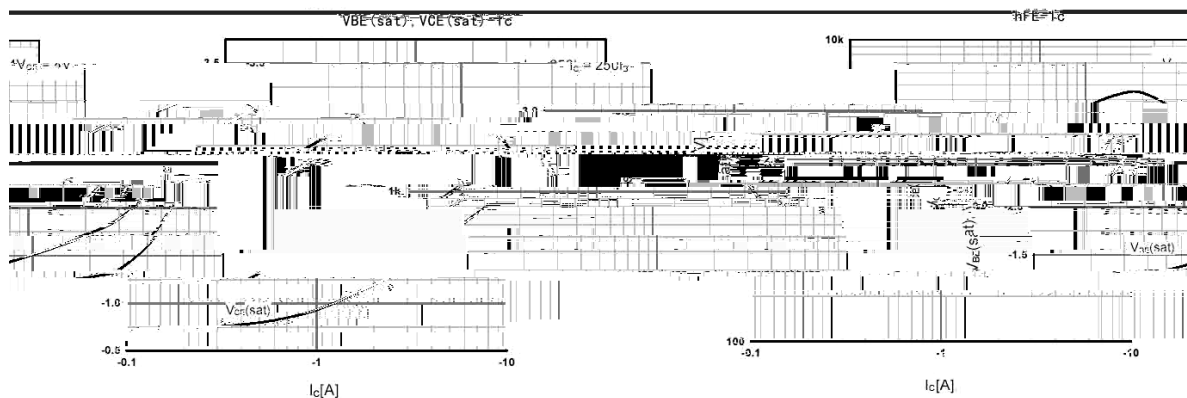
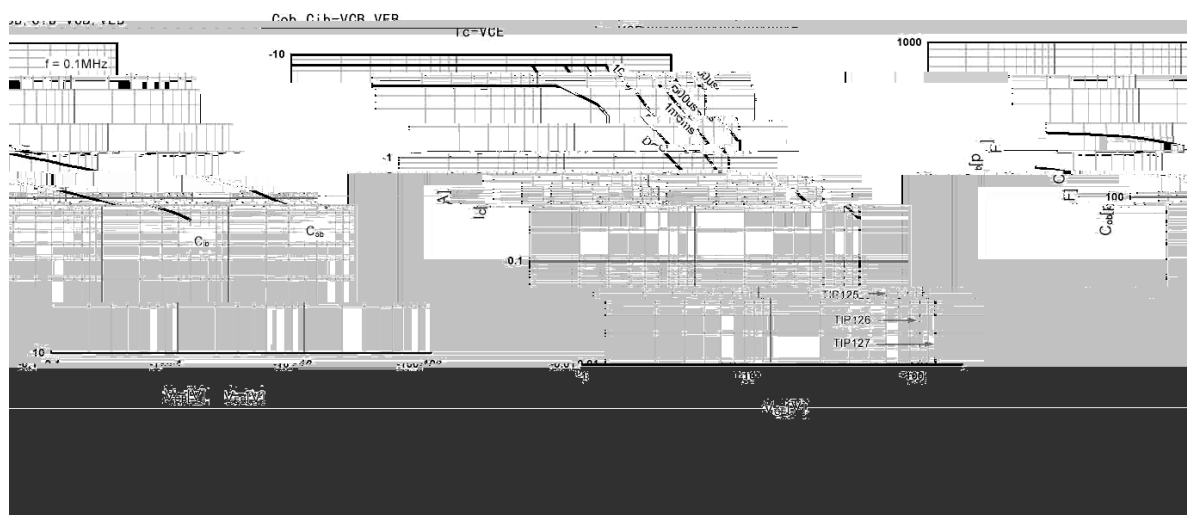
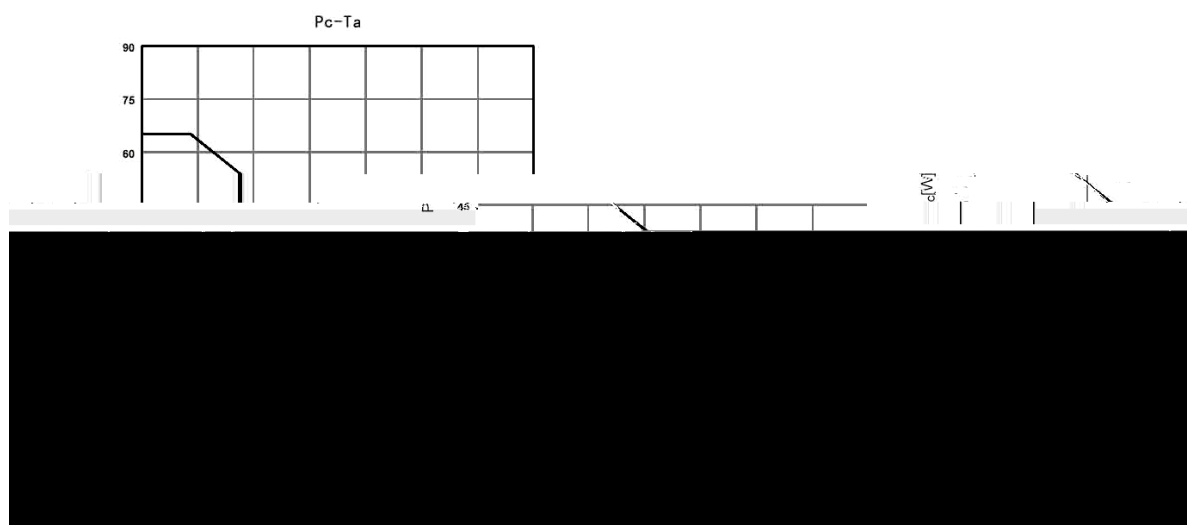
PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

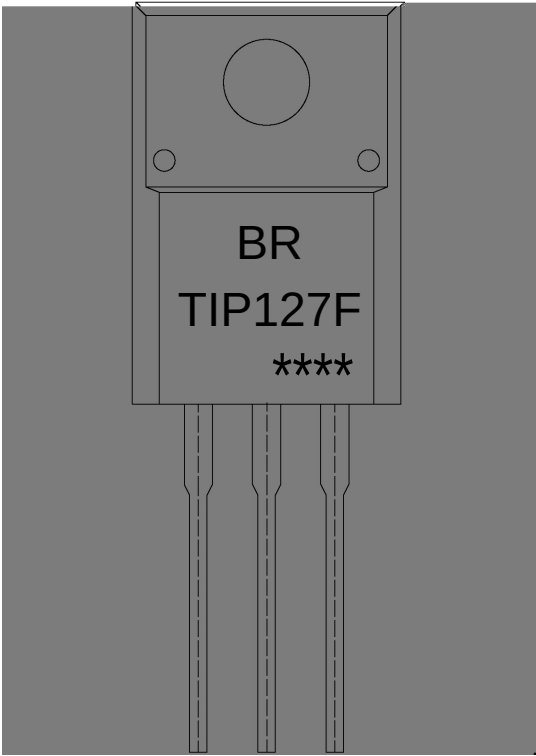
ó m ı ß ¨ See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	100	V

/ Electrical Characteristic Curve

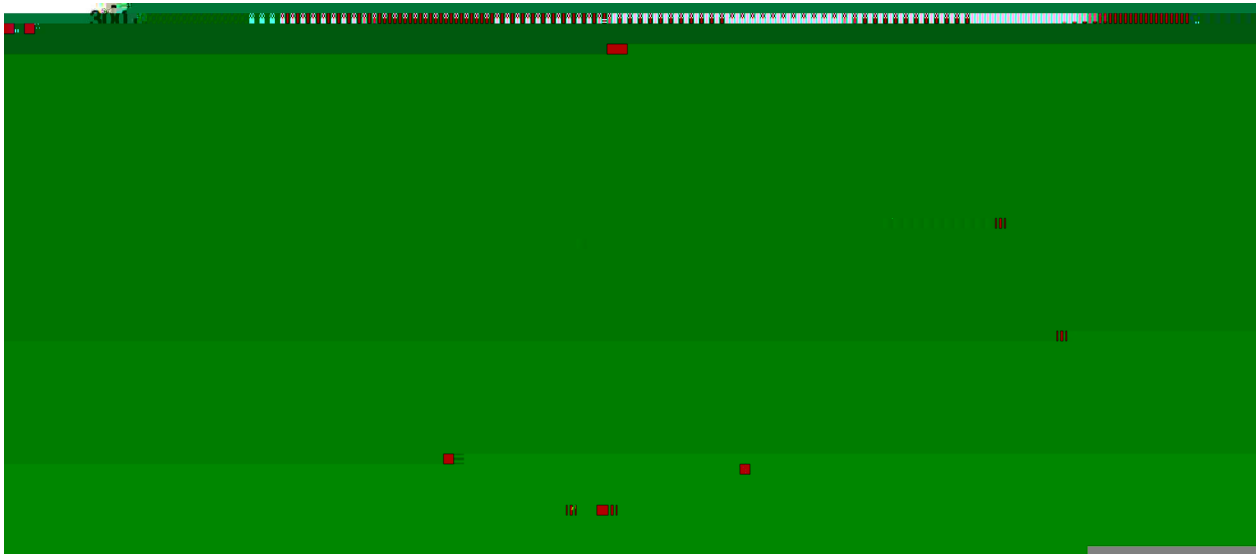


/ Marking Instructions



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EU Χ	ꠤ ꠢ ꠕ ꠒ
WLS45 : I Χ	ꠤ ꠑ ꠒ ꠓ ꠔ
---- Χ	ꠤ I ꠑ ꠒ ꠓ ꠔ ꠕ ꠖ ꠗ ꠘ ꠙ ꠚ ꠛ ꠜ ꠝ ꠞ ꠟ ꠠ ꠡ ꠢ ꠣ ꠤ ꠥ ꠦ ꠧ ꠨ ꠩ ꠪ ꠫ ꠬ ꠭ ꠮ ꠯ ꠰ ꠱ ꠲ ꠳ ꠴ ꠵ ꠶ ꠷ ꠸ ꠹ ꠺ ꠻ ꠼ ꠽ ꠾ ꠿ ꡀ ꡁ ꡂ ꡃ ꡄ ꡅ ꡆ ꡇ ꡈ ꡉ ꡊ ꡋ ꡌ ꡍ ꡎ ꡏ ꡐ ꡑ ꡒ ꡓ ꡔ ꡕ ꡖ ꡗ ꡘ ꡙ ꡚ ꡛ ꡜ ꡝ ꡞ ꡟ ꡠ ꡡ ꡢ ꡣ ꡤ ꡥ ꡦ ꡧ ꡨ ꡩ ꡪ ꡫ ꡬ ꡭ ꡮ ꡯ ꡰ ꡱ ꡲ ꡳ ꡴ ꡵ ꡶ ꡷ ꡸ ꡹ ꡺ ꡻ ꡼ ꡽ ꡾ ꡿ ꢀ ꢁ ꢂ ꢃ ꢄ ꢅ ꢆ ꢇ ꢈ ꢉ ꢊ ꢋ ꢌ ꢍ ꢎ ꢏ ꢐ ꢑ ꢒ ꢓ ꢔ ꢕ ꢖ ꢗ ꢘ ꢙ ꢚ ꢛ ꢜ ꢝ ꢞ ꢟ ꢠ ꢡ ꢢ ꢣ ꢤ ꢥ ꢦ ꢧ ꢨ ꢩ ꢪ ꢫ ꢬ ꢭ ꢮ ꢯ ꢰ ꢱ ꢲ ꢳ ꢴ ꢵ ꢶ ꢷ ꢸ ꢹ ꢺ ꢻ ꢼ ꢽ ꢾ ꢿ ꣀ ꣁ ꣂ ꣃ ꣄ ꣅ ꣆ ꣇ ꣈ ꣉ ꣊ ꣋ ꣌ ꣍ ꣎ ꣏ ꣐ ꣑ ꣒ ꣓ ꣔ ꣕ ꣖ ꣗ ꣘ ꣙ ꣚ ꣛ ꣜ ꣝ ꣞ ꣟ ꣠ ꣡ ꣢ ꣣ ꣤ ꣥ ꣦ ꣧ ꣨ ꣩ ꣪ ꣫ ꣬ ꣭ ꣮ ꣯ ꣰ ꣱ ꣲ ꣳ ꣴ ꣵ ꣶ ꣷ ꣸ ꣹ ꣺ ꣻ ꣼ ꣽ ꣾ ꣿ ꤀ ꤁ ꤂ ꤃ ꤄ ꤅ ꤆ ꤇ ꤈ ꤉ ꤊ ꤋ ꤌ ꤍ ꤎ ꤏ ꤐ ꤑ ꤒ ꤓ ꤔ ꤕ ꤖ ꤗ ꤘ ꤙ ꤚ ꤛ ꤜ ꤝ ꤞ ꤟ ꤠ ꤡ ꤢ ꤣ ꤤ ꤥ ꤦ ꤧ ꤨ ꤩ ꤪ ꤫ ꤬ ꤭ ꤮ ꤯ ꤰ ꤱ ꤲ ꤳ ꤴ ꤵ ꤶ ꤷ ꤸ ꤹ ꤺ ꤻ ꤼ ꤽ ꤾ ꤿ ꥀ ꥁ ꥂ ꥃ ꥄ ꥅ ꥆ ꥇ ꥈ ꥉ ꥊ ꥋ ꥌ ꥍ ꥎ ꥏ ꥐ ꥑ ꥒ ꥓ ꥔ ꥕ ꥖ ꥗ ꥘ ꥙ ꥚ ꥛ ꥜ ꥝ ꥞ ꥟ ꥠ ꥡ ꥢ ꥣ ꥤ ꥥ ꥦ ꥧ ꥨ ꥩ ꥪ ꥫ ꥬ ꥭ ꥮ ꥯ ꥰ ꥱ ꥲ ꥳ ꥴ ꥵ ꥶ ꥷ ꥸ ꥹ ꥺ ꥻ ꥼ ꥽ ꥾ ꥿ ꦀ ꦁ ꦂ ꦃ ꦄ ꦅ ꦆ ꦇ ꦈ ꦉ ꦊ ꦋ ꦌ ꦍ ꦎ ꦏ ꦐ ꦑ ꦒ ꦓ ꦔ ꦕ ꦖ ꦗ ꦘ ꦙ ꦚ ꦛ ꦜ ꦝ ꦞ ꦟ ꦠ ꦡ ꦢ ꦣ ꦤ ꦥ ꦦ ꦧ ꦨ ꦩ ꦪ ꦫ ꦬ ꦭ ꦮ ꦯ ꦰ ꦱ ꦲ ꦳ ꦴ ꦵ ꦶ ꦷ ꦸ ꦹ ꦺ ꦻ ꦼ ꦽ ꦾ ꦿ ꧀ ꧁ ꧂ ꧃ ꧄ ꧅ ꧆ ꧇ ꧈ ꧉ ꧊ ꧋ ꧌ ꧍ ꧎ ꧏ ꧐ ꧑ ꧒ ꧓ ꧔ ꧕ ꧖ ꧗ ꧘ ꧙ ꧚ ꧛ ꧜ ꧝ ꧞ ꧟ ꧠ ꧡ ꧢ ꧣ ꧤ ꧥ ꧦ ꧧ ꧨ ꧩ ꧪ ꧫ ꧬ ꧭ ꧮ ꧯ ꧰ ꧱ ꧲ ꧳ ꧴ ꧵ ꧶ ꧷ ꧸ ꧹ ꧺ ꧻ ꧼ ꧽ ꧾ ꧿ ꨀ ꨁ ꨂ ꨃ ꨄ ꨅ ꨆ ꨇ ꨈ ꨉ ꨊ ꨋ ꨌ ꨍ ꨎ ꨏ ꨐ ꨑ ꨒ ꨓ ꨔ ꨕ ꨖ ꨗ ꨘ ꨙ ꨚ ꨛ ꨜ ꨝ ꨞ ꨟ ꨠ ꨡ ꨢ ꨣ ꨤ ꨥ ꨦ ꨧ ꨨ ꨩ ꨪ ꨫ ꨬ ꨭ ꨮ ꨯ ꨰ ꨱ ꨲ ꨳ ꨴ ꨵ ꨶ ꨷ ꨸ ꨹ ꨺ ꨻ ꨼ ꨽ ꨾ ꨿ ꩀ ꩁ ꩂ ꩃ ꩄ ꩅ ꩆ ꩇ ꩈ ꩉ ꩊ ꩋ ꩌ ꩍ ꩎ ꩏ ꩐ ꩑ ꩒ ꩓ ꩔ ꩕ ꩖ ꩗ ꩘ ꩙ ꩚ ꩛ ꩜ ꩝ ꩞ ꩟ ꩠ ꩡ ꩢ ꩣ ꩤ ꩥ ꩦ ꩧ ꩨ ꩩ ꩪ ꩫ ꩬ ꩭ ꩮ ꩯ ꩰ ꩱ ꩲ ꩳ ꩴ ꩵ ꩶ ꩷ ꩸ ꩹ ꩺ ꩻ ꩼ ꩽ ꩾ ꩿ ꪀ ꪁ ꪂ ꪃ ꪄ ꪅ ꪆ ꪇ ꪈ ꪉ ꪊ ꪋ ꪌ ꪍ ꪎ ꪏ ꪐ ꪑ ꪒ ꪓ ꪔ ꪕ ꪖ ꪗ ꪘ ꪙ ꪚ ꪛ ꪜ ꪝ ꪞ ꪟ ꪠ ꪡ ꪢ ꪣ ꪤ ꪥ ꪦ ꪧ ꪨ ꪩ ꪪ ꪫ ꪬ ꪭ ꪮ ꪯ ꪰ ꪱ ꪲ ꪳ ꪴ ꪵ ꪶ ꪷ ꪸ ꪹ ꪺ ꪻ ꪼ ꪽ ꪾ ꪿ ꫀ ꫁ ꫂ ꫃ ꫄ ꫅ ꫆ ꫇ ꫈ ꫉ ꫊ ꫋ ꫌ ꫍ ꫎ ꫏ ꫐ ꫑ ꫒ ꫓ ꫔ ꫕ ꫖ ꫗ ꫘ ꫙ ꫚ ꫛ ꫜ ꫝ ꫞ ꫟ ꫠ ꫡ ꫢ ꫣ ꫤ ꫥ ꫦ ꫧ ꫨ ꫩ ꫪ ꫫ ꫬ ꫭ ꫮ ꫯ ꫰ ꫱ ꫲ ꫳ ꫴ ꫵ ꫶ ꫷ ꫸ ꫹ ꫺ ꫻ ꫼ ꫽ ꫾ ꫿ ꬀ ꬁ ꬂ ꬃ ꬄ ꬅ ꬆ ꬇ ꬈ ꬉ ꬊ ꬋ ꬌ ꬍ ꬎ ꬏ ꬐ ꬑ ꬒ ꬓ ꬔ ꬕ ꬖ ꬗ ꬘ ꬙ ꬚ ꬛ ꬜ ꬝ ꬞ ꬟ ꬠ ꬡ ꬢ ꬣ ꬤ ꬥ ꬦ ꬧ ꬨ ꬩ ꬪ ꬫ ꬬ ꬭ ꬮ ꬯ ꬰ ꬱ ꬲ ꬳ ꬴ ꬵ ꬶ ꬷ ꬸ ꬹ ꬺ ꬻ ꬼ ꬽ ꬾ ꬿ ꭀ ꭁ ꭂ ꭃ ꭄ ꭅ ꭆ ꭇ ꭈ ꭉ ꭊ ꭋ ꭌ ꭍ ꭎ ꭏ ꭐ ꭑ ꭒ ꭓ ꭔ ꭕ ꭖ ꭗ ꭘ ꭙ ꭚ ꭛ ꭜ ꭝ ꭞ ꭟ ꭠ ꭡ ꭢ ꭣ ꭤ ꭥ ꭦ ꭧ ꭨ ꭩ ꭪ ꭫ ꭬ ꭭ ꭮ ꭯ ꭰ ꭱ ꭲ ꭳ ꭴ ꭵ ꭶ ꭷ ꭸ ꭹ ꭺ ꭻ ꭼ ꭽ ꭾ ꭿ ꮀ ꮁ ꮂ ꮃ ꮄ ꮅ ꮆ ꮇ ꮈ ꮉ ꮊ ꮋ ꮌ ꮍ ꮎ ꮏ ꮐ ꮑ ꮒ ꮓ ꮔ ꮕ ꮖ ꮗ ꮘ ꮙ ꮚ ꮛ ꮜ ꮝ ꮞ ꮟ ꮠ ꮡ ꮢ ꮣ ꮤ ꮥ ꮦ ꮧ ꮨ ꮩ ꮪ ꮫ ꮬ ꮭ ꮮ ꮯ ꮰ ꮱ ꮲ ꮳ ꮴ ꮵ ꮶ ꮷ ꮸ ꮹ ꮺ ꮻ ꮼ ꮽ ꮾ ꮿ ꯀ ꯁ ꯂ ꯃ ꯄ ꯅ ꯆ ꯇ ꯈ ꯉ ꯊ ꯋ ꯌ ꯍ ꯎ ꯏ ꯐ ꯑ ꯒ ꯓ ꯔ ꯕ ꯖ ꯗ ꯘ ꯙ ꯚ ꯛ ꯜ ꯝ ꯞ ꯟ ꯠ ꯡ ꯢ ꯣ ꯤ ꯥ ꯦ ꯧ ꯨ ꯩ ꯪ ꯫ ꯬ ꯭ ꯮ ꯯ ꯰ ꯱ ꯲ ꯳ ꯴ ꯵ ꯶ ꯷ ꯸ ꯹ ꯺ ꯻ ꯼ ꯽ ꯾ ꯿ 가 각 갂 갃 간 갅 갆 갇 갈 갉 갊 갋 갌 갍 갎 갏 감 갑 값 갓 갔 강 갖 갗 갘 같 갚 갛 개 객 갞 갟 갠 갡 갢 갣 갤 갥 갦 갧 갨 갩 갪 갫 갬 갭 갮 갯 갰 갱 갲 갳 갴 갵 갶 갷 갸 갹 갺 갻 갼 갽 갾 갿 걀 걁 걂 걃 걄 걅 걆 걇 걈 걉 걊 걋 걌 걍 걎 걏 걐 걑 걒 걓 걔 걕 걖 걗 걘 걙 걚 걛 걜 걝 걞 걟 걠 걡 걢 걣 걤 걥 걦 걧 걨 걩 걪 걫 걬 걭 걮 걯 거 걱 걲 걳 건 걵 걶 걷 걸 걹 걺 걻 걼 걽 걾 걿 검 겁 겂 것 겄 겅 겆 겇 겈 겉 겊 겋 게 겍 겎 겏 겐 겑 겒 겓 겔 겕 겖 겗 겘 겙 겚 겛 겜 겝 겞 겟 겠 겡 겢 겣 겤 겥 겦 겧 겨 격 겪 겫 견 겭 겮 겯 결 겱 겲 겳 겴 겵 겶 겷 겸 겹 겺 겻 겼 경 겾 겿 곀 곁 곂 곃 계 곅 곆 곇 곈 곉 곊 곋 곌 곍 곎 곏 곐 곑 곒 곓 곔 곕 곖 곗 곘 곙 곚 곛 곜 곝 곞 곟 고 곡 곢 곣 곤 곥 곦 곧 골 곩 곪 곫 곬 곭 곮 곯 곰 곱 곲 곳 곴 공 곶 곷 곸 곹 곺 곻 과 곽 곾 곿 관 괁 괂 괃 괄 괅 괆 괇 괈 괉 괊 괋 괌 괍 괎 괏 괐 광 괒 괓 괔 괕 괖 괗 괘 괙 괚 괛 괜 괝 괞 괟 괠 괡 괢 괣 괤 괥 괦 괧 괨 괩 괪 괫 괬 괭 괮 괯 괰 괱 괲 괳 괴 괵 괶 괷 괸 괹 괺 괻 괼 괽 괾 괿 굀 굁 굂 굃 굄 굅 굆 굇 굈 굉 굊 굋 굌 굍 굎 굏 교 굑 굒 굓 굔 굕 굖 굗 굘 굙 굚 굛 굜 굝 굞 굟 굠 굡 굢 굣 굤 굥 굦 굧 굨 굩 굪 굫 구 국 굮 굯 군 굱 굲 굳 굴 굵 굶 굷 굸 굹 굺 굻 굼 굽 굾 굿 궀 궁 궂 궃 궄 궅 궆 궇 궈 궉 궊 궋 권 궍 궎 궏 궐 궑 궒 궓 궔 궕 궖 궗 궘 궙 궚 궛 궜 궝 궞 궟 궠 궡 궢 궣 궤 궥 궦 궧 궨 궩 궪 궫 궬 궭 궮 궯 궰 궱 궲 궳 궴 궵 궶 궷 궸 궹 궺 궻 궼 궽 궾 궿 귀 귁 귂 귃 귄 귅 귆 귇 귈 귉 귊 귋 귌 귍 귎 귏 귐 귑 귒 귓 귔 귕 귖 귗 귘 귙 귚 귛 규 귝 귞 귟 균 귡 귢 귣 귤 귥 귦 귧 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() / Temperature Profile for Dip Soldering(Pb-Free)



б " X

1. 150 °C ~ 250 °C, Time: 60 ~ 90sec;
2. 255 °C ± 5 °C, Duration: 5 °C ± 0.5sec;
3. Cooling Speed: 2 ~ 10 °C /sec.

Note:

1. Preheating: 25~150 °C, Time: 60~90sec.
2. Peak Temp.: 255 °C ± 5 °C, Duration: 5 °C ± 0.5sec.
3. Cooling Speed: 2~10 °C /sec.

/ Resistance to Soldering Heat Test Conditions

□ 270 °C ± 5 °C 10 °C ± 1 sec. Temp: 270 ± 5 Time: 10 ± 1 sec

/ Packaging SPEC.

“Q” γ t / BULK

Package Type	Units					Dimension (unit mm3)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

γ t / TUBE

Package Type	Units	Dimension (unit mm3)
Units/TuUnits/PC		